

All enzymes in BRENDATM  
The Comprehensive Enzyme Information System

[http://www.brenda-enzymes.org/index.php4?page=information/all\\_enzymes.php4](http://www.brenda-enzymes.org/index.php4?page=information/all_enzymes.php4)

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- 1.1.99.15 [5,10-methylenetetrahydrofolate reductase \(FADH<sub>2</sub>\)](#)
- 1.1.99.16 [malate dehydrogenase \(acceptor\)](#)
- 1.1.99.17 [glucose dehydrogenase \(pyrroloquinoline-quinone\)](#)
- 1.1.99.18 [cellobiose dehydrogenase \(acceptor\)](#)
- 1.1.99.19 [uracil dehydrogenase](#)
- 1.1.99.20 [alkan-1-ol dehydrogenase \(acceptor\)](#)
- 1.1.99.21 [D-sorbitol dehydrogenase \(acceptor\)](#)
- 1.1.99.22 [glycerol dehydrogenase \(acceptor\)](#)
- 1.1.99.23 [polyvinyl-alcohol dehydrogenase \(acceptor\)](#)
- 1.1.99.24 [hydroxyacid-oxoacid transhydrogenase](#)
- 1.1.99.25 [quinate dehydrogenase \(pyrroloquinoline-quinone\)](#)
- 1.1.99.26 [3-hydroxycyclohexanone dehydrogenase](#)
- 1.1.99.27 [\(R\)-Pantolactone dehydrogenase \(flavin\)](#)
- 1.1.99.28 [glucose-fructose oxidoreductase](#)
- 1.1.99.29 [pyranose dehydrogenase \(acceptor\)](#)
- 1.1.99.30 [2-oxo-acid reductase](#)
- 1.1.99.31 [\(S\)-mandelate dehydrogenase](#)
- 1.1.99.32 [L-sorbose 1-dehydrogenase](#)
- 1.2.1.1 [formaldehyde dehydrogenase \(glutathione\)](#)
- 1.2.1.2 [formate dehydrogenase](#)
- 1.2.1.3 [aldehyde dehydrogenase \(NAD<sup>+</sup>\)](#)
- 1.2.1.4 [aldehyde dehydrogenase \(NADP<sup>+</sup>\)](#)
- 1.2.1.5 [aldehyde dehydrogenase \[NAD\(P\)<sup>+</sup>\]](#)
- 1.2.1.6 [benzaldehyde dehydrogenase](#)
- 1.2.1.7 [benzaldehyde dehydrogenase \(NADP<sup>+</sup>\)](#)
- 1.2.1.8 [betaine-aldehyde dehydrogenase](#)

- 1.2.1.9 [glyceraldehyde-3-phosphate dehydrogenase \(NADP+\)](#)
- 1.2.1.10 [acetaldehyde dehydrogenase \(acetylating\)](#)
- 1.2.1.11 [aspartate-semialdehyde dehydrogenase](#)
- 1.2.1.12 [glyceraldehyde-3-phosphate dehydrogenase \(phosphorylating\)](#)
- 1.2.1.13 [glyceraldehyde-3-phosphate dehydrogenase \(NADP+\) \(phosphorylating\)](#)
- 1.2.1.14 [IMP dehydrogenase](#)
- 1.2.1.15 [malonate-semialdehyde dehydrogenase](#)
- 1.2.1.16 [succinate-semialdehyde dehydrogenase \[NAD\(P\)+\]](#)
- 1.2.1.17 [glyoxylate dehydrogenase \(acylating\)](#)
- 1.2.1.18 [malonate-semialdehyde dehydrogenase \(acetylating\)](#)
- 1.2.1.19 [aminobutyraldehyde dehydrogenase](#)
- 1.2.1.20 [glutarate-semialdehyde dehydrogenase](#)
- 1.2.1.21 [glycolaldehyde dehydrogenase](#)
- 1.2.1.22 [lactaldehyde dehydrogenase](#)
- 1.2.1.23 [2-oxoaldehyde dehydrogenase \(NAD+\)](#)
- 1.2.1.24 [succinate-semialdehyde dehydrogenase](#)
- 1.2.1.25 [2-oxoisovalerate dehydrogenase \(acylating\)](#)
- 1.2.1.26 [2,5-dioxovalerate dehydrogenase](#)
- 1.2.1.27 [methylmalonate-semialdehyde dehydrogenase \(acylating\)](#)
- 1.2.1.28 [benzaldehyde dehydrogenase \(NAD+\)](#)
- 1.2.1.29 [aryl-aldehyde dehydrogenase](#)
- 1.2.1.30 [aryl-aldehyde dehydrogenase \(NADP+\)](#)
- 1.2.1.31 [L-amino adipate-semialdehyde dehydrogenase](#)
- 1.2.1.32 [aminomuconate-semialdehyde dehydrogenase](#)
- 1.2.1.33 [\(R\)-dehydropantoate dehydrogenase](#)
- 1.2.1.34 [D-mannose dehydrogenase \(NAD\(P\)+\)](#)
- 1.2.1.35 [uronate dehydrogenase](#)
- 1.2.1.36 [retinal dehydrogenase](#)
- 1.2.1.37 [xanthine dehydrogenase](#)
- 1.2.1.38 [N-acetyl-gamma-glutamyl-phosphate reductase](#)
- 1.2.1.39 [phenylacetaldehyde dehydrogenase](#)
- 1.2.1.40 [3alpha,7alpha,12alpha-trihydroxycholestan-26-ol 26-oxidoreductase](#)
- 1.2.1.41 [glutamate-5-semialdehyde dehydrogenase](#)
- 1.2.1.42 [hexadecanal dehydrogenase \(acylating\)](#)
- 1.2.1.43 [formate dehydrogenase \(NADP+\)](#)
- 1.2.1.44 [cinnamoyl-CoA reductase](#)
- 1.2.1.45 [4-carboxy-2-hydroxymuconate-6-semialdehyde dehydrogenase](#)
- 1.2.1.46 [formaldehyde dehydrogenase](#)
- 1.2.1.47 [4-trimethylammoniobutyraldehyde dehydrogenase](#)
- 1.2.1.48 [long-chain-aldehyde dehydrogenase](#)
- 1.2.1.49 [2-oxoaldehyde dehydrogenase \(NADP+\)](#)
- 1.2.1.50 [long-chain-fatty-acyl-CoA reductase](#)
- 1.2.1.51 [pyruvate dehydrogenase \(NADP+\)](#)
- 1.2.1.52 [oxoglutarate dehydrogenase \(NADP+\)](#)
- 1.2.1.53 [4-hydroxyphenylacetaldehyde dehydrogenase](#)
- 1.2.1.54 [gamma-quanidinobutyraldehyde dehydrogenase](#)
- 1.2.1.55 [\(R\)-3-hydroxyacid ester dehydrogenase](#)
- 1.2.1.56 [\(S\)-3-hydroxyacid ester dehydrogenase](#)
- 1.2.1.57 [butanal dehydrogenase](#)
- 1.2.1.58 [phenylglyoxylate dehydrogenase \(acylating\)](#)
- 1.2.1.59 [glyceraldehyde-3-phosphate dehydrogenase \(NAD\(P\)+\) \(phosphorylating\)](#)

- 1.2.1.60 [5-carboxymethyl-2-hydroxymuconic-semialdehyde dehydrogenase](#)
- 1.2.1.61 [4-hydroxymuconic-semialdehyde dehydrogenase](#)
- 1.2.1.62 [4-formylbenzenesulfonate dehydrogenase](#)
- 1.2.1.63 [6-oxohexanoate dehydrogenase](#)
- 1.2.1.64 [4-hydroxybenzaldehyde dehydrogenase](#)
- 1.2.1.65 [salicylaldehyde dehydrogenase](#)
- 1.2.1.66 [mycothiol-dependent formaldehyde dehydrogenase](#)
- 1.2.1.67 [vanillin dehydrogenase](#)
- 1.2.1.68 [coniferyl-aldehyde dehydrogenase](#)
- 1.2.1.69 [fluoroacetaldehyde dehydrogenase](#)
- 1.2.1.70 [glutamyl-tRNA reductase](#)
- 1.2.1.71 [succinylglutamate-semialdehyde dehydrogenase](#)
- 1.2.1.72 [erythrose-4-phosphate dehydrogenase](#)
- 1.2.1.73 [sulfoacetaldehyde dehydrogenase](#)
- 1.2.2.1 [formate dehydrogenase \(cytochrome\)](#)
- 1.2.2.2 [pyruvate dehydrogenase \(cytochrome\)](#)
- 1.2.2.3 [formate dehydrogenase \(cytochrome-c-553\)](#)
- 1.2.2.4 [carbon-monoxide dehydrogenase \(cytochrome b-561\)](#)
- 1.2.3.1 [aldehyde oxidase](#)
- 1.2.3.2 [xanthine oxidase](#)
- 1.2.3.3 [pyruvate oxidase](#)
- 1.2.3.4 [oxalate oxidase](#)
- 1.2.3.5 [glyoxylate oxidase](#)
- 1.2.3.6 [pyruvate oxidase \(CoA-acetylating\)](#)
- 1.2.3.7 [indole-3-acetaldehyde oxidase](#)
- 1.2.3.8 [pyridoxal oxidase](#)
- 1.2.3.9 [aryl-aldehyde oxidase](#)
- 1.2.3.10 [carbon-monoxide oxidase](#)
- 1.2.3.11 [retinal oxidase](#)
- 1.2.3.12 [vanillate demethylase](#)
- 1.2.3.13 [4-hydroxyphenylpyruvate oxidase](#)
- 1.2.3.14 [abscisic-aldehyde oxidase](#)
- 1.2.4.1 [pyruvate dehydrogenase \(acetyl-transferring\)](#)
- 1.2.4.2 [oxoglutarate dehydrogenase \(succinyl-transferring\)](#)
- 1.2.4.3 [2-oxoisocaproate dehydrogenase](#)
- 1.2.4.4 [3-methyl-2-oxobutanoate dehydrogenase \(2-methylpropanoyl-transferring\)](#)
- 1.2.7.1 [pyruvate synthase](#)
- 1.2.7.2 [2-oxobutyrate synthase](#)
- 1.2.7.3 [2-oxoglutarate synthase](#)
- 1.2.7.4 [carbon-monoxide dehydrogenase \(ferredoxin\)](#)
- 1.2.7.5 [aldehyde ferredoxin oxidoreductase](#)
- 1.2.7.6 [glyceraldehyde-3-phosphate dehydrogenase \(ferredoxin\)](#)
- 1.2.7.7 [3-methyl-2-oxobutanoate dehydrogenase \(ferredoxin\)](#)
- 1.2.7.8 [indolepyruvate ferredoxin oxidoreductase](#)
- 1.2.7.9 [2-oxoglutarate ferredoxin oxidoreductase](#)
- 1.2.99.1 [uracil dehydrogenase](#)
- 1.2.99.2 [carbon-monoxide dehydrogenase \(acceptor\)](#)
- 1.2.99.3 [aldehyde dehydrogenase \(pyrroloquinoline-quinone\)](#)
- 1.2.99.4 [formaldehyde dismutase](#)
- 1.2.99.5 [Formylmethanofuran dehydrogenase](#)
- 1.2.99.6 [Carboxylate reductase](#)

- 1.2.99.7 [aldehyde dehydrogenase \(FAD-independent\)](#)  
1.3.1.1 [dihydouracil dehydrogenase \(NAD<sup>+</sup>\)](#)  
1.3.1.2 [dihydropyrimidine dehydrogenase \(NADP<sup>+</sup>\)](#)  
1.3.1.3 [DETA4-3-oxosteroid 5beta-reductase](#)  
1.3.1.4 [cortisone alpha-reductase](#)  
1.3.1.5 [cucurbitacin DELTA23-reductase](#)  
1.3.1.6 [fumarate reductase \(NADH\)](#)  
1.3.1.7 [meso-tartrate dehydrogenase](#)  
1.3.1.8 [acyl-CoA dehydrogenase \(NADP<sup>+</sup>\)](#)  
1.3.1.9 [enoyl-\[acyl-carrier-protein\] reductase \(NADH\)](#)  
1.3.1.10 [enoyl-\[acyl-carrier-protein\] reductase \(NADPH, B-specific\)](#)  
1.3.1.11 [2-coumarate reductase](#)  
1.3.1.12 [prephenate dehydrogenase](#)  
1.3.1.13 [prephenate dehydrogenase \(NADP<sup>+</sup>\)](#)  
1.3.1.14 [orotate reductase \(NADH\)](#)  
1.3.1.15 [orotate reductase \(NADPH\)](#)  
1.3.1.16 [beta-nitroacrylate reductase](#)  
1.3.1.17 [3-methyleneoxindole reductase](#)  
1.3.1.18 [kynurenate-7,8-dihydrodiol dehydrogenase](#)  
1.3.1.19 [cis-1,2-dihydrobenzene-1,2-diol dehydrogenase](#)  
1.3.1.20 [trans-1,2-dihydrobenzene-1,2-diol dehydrogenase](#)  
1.3.1.21 [7-dehydrocholesterol reductase](#)  
1.3.1.22 [cholestеноне 5alpha-reductase](#)  
1.3.1.23 [cholestеноне 5beta-reductase](#)  
1.3.1.24 [biliverdin reductase](#)  
1.3.1.25 [1,6-dihydroxycyclohexa-2,4-diene-1-carboxylate dehydrogenase](#)  
1.3.1.26 [dihydrodipicolinate reductase](#)  
1.3.1.27 [2-hexadecenal reductase](#)  
1.3.1.28 [2,3-dihydro-2,3-dihydroxybenzoate dehydrogenase](#)  
1.3.1.29 [cis-1,2-dihydro-1,2-dihydroxynaphthalene dehydrogenase](#)  
1.3.1.30 [progesterone 5alpha-reductase](#)  
1.3.1.31 [2-enoate reductase](#)  
1.3.1.32 [maleylacetate reductase](#)  
1.3.1.33 [protochlorophyllide reductase](#)  
1.3.1.34 [2,4-dienoyl-CoA reductase \(NADPH\)](#)  
1.3.1.35 [phosphatidylcholine desaturase](#)  
1.3.1.36 [geissoschizine dehydrogenase](#)  
1.3.1.37 [cis-2-enoyl-CoA reductase \(NADPH\)](#)  
1.3.1.38 [trans-2-enoyl-CoA reductase \(NADPH\)](#)  
1.3.1.39 [enoyl-\[acyl-carrier-protein\] reductase \(NADPH, A-specific\)](#)  
1.3.1.40 [2-hydroxy-6-oxo-6-phenylhexa-2,4-dienoate reductase](#)  
1.3.1.41 [xanthomatin reductase](#)  
1.3.1.42 [12-oxophytodienoate reductase](#)  
1.3.1.43 [arogenate dehydrogenase](#)  
1.3.1.44 [trans-2-enoyl-CoA reductase \(NAD<sup>+</sup>\)](#)  
1.3.1.45 [2'-hydroxyisoflavone reductase](#)  
1.3.1.46 [biochanin-A reductase](#)  
1.3.1.47 [alpha-santonin 1,2-reductase](#)  
1.3.1.48 [15-oxoprostaglandin 13-oxidase](#)  
1.3.1.49 [cis-3,4-dihydrophenanthrene-3,4-diol dehydrogenase](#)  
1.3.1.50 [tetrahydroxynaphthalene reductase](#)

- 1.3.1.51 [2'-hydroxydaidzein reductase](#)
- 1.3.1.52 [2-methyl-branched-chain-enoyl-CoA reductase](#)
- 1.3.1.53 [\(3S,4R\)-3,4-dihydroxycyclohexa-1,5-diene-1,4-dicarboxylate dehydrogenase](#)
- 1.3.1.54 [precorrin-6A reductase](#)
- 1.3.1.55 [cis-1,2-dihydroxycyclohexa-3,5-diene-1-carboxylate dehydrogenase](#)
- 1.3.1.56 [cis-2,3-dihydrobiphenyl-2,3-diol dehydrogenase](#)
- 1.3.1.57 [phloroglucinol reductase](#)
- 1.3.1.58 [2,3-dihydroxy-2,3-dihydro-p-cumate dehydrogenase](#)
- 1.3.1.59 [1,2-dihydroxy-3-methyl-1,2-dihydrobenzoate dehydrogenase](#)
- 1.3.1.60 [dibenzothiophene dihydrodiol dehydrogenase](#)
- 1.3.1.61 [terephthalate 1,2-cis-dihydrodiol dehydrogenase](#)
- 1.3.1.62 [pimeloyl-CoA dehydrogenase](#)
- 1.3.1.63 [2,4-dichlorobenzoyl-CoA reductase](#)
- 1.3.1.64 [phthalate 4,5-cis-dihydrodiol dehydrogenase](#)
- 1.3.1.65 [5,6-dihydroxy-3-methyl-2-oxo-1,2,5,6-tetrahydroquinoline dehydrogenase](#)
- 1.3.1.66 [cis-dihydroethylcatechol dehydrogenase](#)
- 1.3.1.67 [cis-1,2-dihydroxy-4-methylcyclohexa-3,5-diene-1-carboxylate dehydrogenase](#)
- 1.3.1.68 [1,2-dihydroxy-6-methylcyclohexa-3,5-dienecarboxylate dehydrogenase](#)
- 1.3.1.69 [zeatin reductase](#)
- 1.3.1.70 [DELTA14-sterol reductase](#)
- 1.3.1.71 [DELTA24\(241\)-sterol reductase](#)
- 1.3.1.72 [DELTA24-sterol reductase](#)
- 1.3.1.73 [1,2-dihydrovomilenine reductase](#)
- 1.3.1.74 [2-alkenal reductase](#)
- 1.3.1.75 [divinyl chlorophyllide a 8-vinyl-reductase](#)
- 1.3.1.76 [precorrin-2 dehydrogenase](#)
- 1.3.1.77 [anthocyanidin reductase](#)
- 1.3.1.78 [arogenate dehydrogenase \(NADP+\)](#)
- 1.3.1.79 [arogenate dehydrogenase \[NAD\(P\)+\]](#)
- 1.3.1.80 [red chlorophyll catabolite reductase](#)
- 1.3.1.81 [\(+\)-pulegone reductase](#)
- 1.3.1.82 [\(-\)-isopiperitenone reductase](#)
- 1.3.2.1 [butyryl-CoA dehydrogenase](#)
- 1.3.2.2 [acyl-CoA dehydrogenase](#)
- 1.3.2.3 [L-galactonolactone dehydrogenase](#)
- 1.3.3.1 [dihydroorotate oxidase](#)
- 1.3.3.2 [lathosterol oxidase](#)
- 1.3.3.3 [coproporphyrinogen oxidase](#)
- 1.3.3.4 [protoporphyrinogen oxidase](#)
- 1.3.3.5 [bilirubin oxidase](#)
- 1.3.3.6 [acyl-CoA oxidase](#)
- 1.3.3.7 [dihydouracil oxidase](#)
- 1.3.3.8 [tetrahydroberberine oxidase](#)
- 1.3.3.9 [secologanin synthase](#)
- 1.3.3.10 [tryptophan alpha,beta-oxidase](#)
- 1.3.3.11 [pyrroloquinoline-quinone synthase](#)
- 1.3.3.12 [L-galactonolactone oxidase](#)
- 1.3.5.1 [succinate dehydrogenase \(ubiquinone\)](#)
- 1.3.5.2 [dihydroorotate dehydrogenase](#)
- 1.3.7.1 [6-hydroxynicotinate reductase](#)
- 1.3.7.2 [15,16-dihydrobiliverdin:ferredoxin oxidoreductase](#)

- 1.3.7.3 [phycoerythobilin:ferredoxin oxidoreductase](#)
- 1.3.7.4 [phytochromobilin:ferredoxin oxidoreductase](#)
- 1.3.7.5 [phycocyanobilin:ferredoxin oxidoreductase](#)
- 1.3.7.6 [phycoerythobilin synthase](#)
- 1.3.99.1 [succinate dehydrogenase](#)
- 1.3.99.B1 [tryptophan 5-halogenase](#)
- 1.3.99.2 [butyryl-CoA dehydrogenase](#)
- 1.3.99.3 [acyl-CoA dehydrogenase](#)
- 1.3.99.4 [3-oxosteroid 1-dehydrogenase](#)
- 1.3.99.5 [3-oxo-5alpha-steroid 4-dehydrogenase](#)
- 1.3.99.6 [3-oxo-5beta-steroid 4-dehydrogenase](#)
- 1.3.99.7 [glutaryl-CoA dehydrogenase](#)
- 1.3.99.8 [2-furoyl-CoA dehydrogenase](#)
- 1.3.99.9 [beta-cyclopiazonate dehydrogenase](#)
- 1.3.99.10 [isovaleryl-CoA dehydrogenase](#)
- 1.3.99.11 [dihydroorotate dehydrogenase](#)
- 1.3.99.12 [2-methylacyl-CoA dehydrogenase](#)
- 1.3.99.13 [long-chain-acyl-CoA dehydrogenase](#)
- 1.3.99.14 [Cyclohexanone dehydrogenase](#)
- 1.3.99.15 [Benzoyl-CoA reductase](#)
- 1.3.99.16 [Isoquinoline 1-oxidoreductase](#)
- 1.3.99.17 [Quinoline 2-oxidoreductase](#)
- 1.3.99.18 [Quinaldate 4-oxidoreductase](#)
- 1.3.99.19 [Quinoline-4-carboxylate 2-oxidoreductase](#)
- 1.3.99.20 [4-hydroxybenzoyl-CoA reductase](#)
- 1.3.99.21 [\(R\)-benzylsuccinyl-CoA dehydrogenase](#)
- 1.3.99.22 [coproporphyrinogen dehydrogenase](#)
- 1.3.99.23 [all-trans-retinol 13,14-reductase](#)
- 1.3.99.24 [2-amino-4-deoxychorismate dehydrogenase](#)
- 1.3.99.25 [carvone reductase](#)
- 1.4.1.1 [alanine dehydrogenase](#)
- 1.4.1.B1 [aspartate dehydrogenase](#)
- 1.4.1.2 [glutamate dehydrogenase](#)
- 1.4.1.B2 [L-erythro-3,5-diaminohexanoate dehydrogenase](#)
- 1.4.1.3 [glutamate dehydrogenase \[NAD\(P\)+\]](#)
- 1.4.1.4 [glutamate dehydrogenase \(NADP+\)](#)
- 1.4.1.5 [L-Amino-acid dehydrogenase](#)
- 1.4.1.6 [D-proline reductase](#)
- 1.4.1.7 [serine 2-dehydrogenase](#)
- 1.4.1.8 [valine dehydrogenase \(NADP+\)](#)
- 1.4.1.9 [leucine dehydrogenase](#)
- 1.4.1.10 [glycine dehydrogenase](#)
- 1.4.1.11 [L-erythro-3,5-diaminohexanoate dehydrogenase](#)
- 1.4.1.12 [2,4-diaminopentanoate dehydrogenase](#)
- 1.4.1.13 [glutamate synthase \(NADPH\)](#)
- 1.4.1.14 [glutamate synthase \(NADH\)](#)
- 1.4.1.15 [lysine dehydrogenase](#)
- 1.4.1.16 [diaminopimelate dehydrogenase](#)
- 1.4.1.17 [N-methylalanine dehydrogenase](#)
- 1.4.1.18 [lysine 6-dehydrogenase](#)
- 1.4.1.19 [tryptophan dehydrogenase](#)

- 1.4.1.20 [phenylalanine dehydrogenase](#)
- 1.4.1.21 [aspartate dehydrogenase](#)
- 1.4.2.1 [glycine dehydrogenase \(cytochrome\)](#)
- 1.4.3.1 [D-aspartate oxidase](#)
- 1.4.3.2 [L-amino-acid oxidase](#)
- 1.4.3.3 [D-amino-acid oxidase](#)
- 1.4.3.4 [monoamine oxidase](#)
- 1.4.3.5 [pyridoxal 5'-phosphate synthase](#)
- 1.4.3.6 [amine oxidase \(copper-containing\)](#)
- 1.4.3.7 [D-glutamate oxidase](#)
- 1.4.3.8 [ethanolamine oxidase](#)
- 1.4.3.9 [tyramine oxidase](#)
- 1.4.3.10 [putrescine oxidase](#)
- 1.4.3.11 [L-glutamate oxidase](#)
- 1.4.3.12 [cyclohexylamine oxidase](#)
- 1.4.3.13 [protein-lysine 6-oxidase](#)
- 1.4.3.14 [L-lysine oxidase](#)
- 1.4.3.15 [D-glutamate\(D-aspartate\) oxidase](#)
- 1.4.3.16 [L-aspartate oxidase](#)
- 1.4.3.17 [tryptophan alpha,beta-oxidase](#)
- 1.4.3.18 [cytokinin oxidase](#)
- 1.4.3.19 [glycine oxidase](#)
- 1.4.3.20 [L-lysine 6-oxidase](#)
- 1.4.3.21 [primary-amine oxidase](#)
- 1.4.3.22 [diamine oxidase](#)
- 1.4.4.1 [D-proline reductase \(dithiol\)](#)
- 1.4.4.2 [glycine dehydrogenase \(decarboxylating\)](#)
- 1.4.7.1 [glutamate synthase \(ferredoxin\)](#)
- 1.4.99.1 [D-amino-acid dehydrogenase](#)
- 1.4.99.2 [taurine dehydrogenase](#)
- 1.4.99.3 [amine dehydrogenase](#)
- 1.4.99.4 [aralkylamine dehydrogenase](#)
- 1.4.99.5 [glycine dehydrogenase \(cyanide-forming\)](#)
- 1.5.1.1 [pyrroline-2-carboxylate reductase](#)
- 1.5.1.2 [pyrroline-5-carboxylate reductase](#)
- 1.5.1.3 [dihydrofolate reductase](#)
- 1.5.1.4 [dihydrofolate dehydrogenase](#)
- 1.5.1.5 [methylenetetrahydrofolate dehydrogenase \(NADP+\)](#)
- 1.5.1.6 [formyltetrahydrofolate dehydrogenase](#)
- 1.5.1.7 [saccharopine dehydrogenase \(NAD+, L-lysine-forming\)](#)
- 1.5.1.8 [saccharopine dehydrogenase \(NADP+, L-lysine-forming\)](#)
- 1.5.1.9 [saccharopine dehydrogenase \(NAD+, L-glutamate-forming\)](#)
- 1.5.1.10 [saccharopine dehydrogenase \(NADP+, L-glutamate-forming\)](#)
- 1.5.1.11 [D-Octopine dehydrogenase](#)
- 1.5.1.12 [1-pyrroline-5-carboxylate dehydrogenase](#)
- 1.5.1.13 [nicotinate dehydrogenase](#)
- 1.5.1.14 [1,2-didehydropipecolate reductase](#)
- 1.5.1.15 [methylenetetrahydrofolate dehydrogenase \(NAD+\)](#)
- 1.5.1.16 [D-lysopine dehydrogenase](#)
- 1.5.1.17 [Alanopine dehydrogenase](#)
- 1.5.1.18 [ephedrine dehydrogenase](#)

- 1.5.1.19 [D-nopaline dehydrogenase](#)
- 1.5.1.20 [methylenetetrahydrofolate reductase \[NAD\(P\)H\]](#)
- 1.5.1.21 [DELTA1-piperideine-2-carboxylate reductase](#)
- 1.5.1.22 [Strombine dehydrogenase](#)
- 1.5.1.23 [Tauropine dehydrogenase](#)
- 1.5.1.24 [N5-\(carboxyethyl\)ornithine synthase](#)
- 1.5.1.25 [thiomorpholine-carboxylate dehydrogenase](#)
- 1.5.1.26 [beta-alanopine dehydrogenase](#)
- 1.5.1.27 [1,2-Dehydroreticulinium reductase \(NADPH\)](#)
- 1.5.1.28 [Opine dehydrogenase](#)
- 1.5.1.29 [FMN reductase](#)
- 1.5.1.30 [flavin reductase](#)
- 1.5.1.31 [berberine reductase](#)
- 1.5.1.32 [vomilenine reductase](#)
- 1.5.1.33 [pteridine reductase](#)
- 1.5.1.34 [6,7-dihydropteridine reductase](#)
- 1.5.1.35 [1-pyrroline dehydrogenase](#)
- 1.5.3.1 [sarcosine oxidase](#)
- 1.5.3.B1 [spermine oxidase](#)
- 1.5.3.2 [N-methyl-L-amino-acid oxidase](#)
- 1.5.3.3 [spermine oxidase](#)
- 1.5.3.4 [N6-methyl-lysine oxidase](#)
- 1.5.3.5 [\(S\)-6-hydroxynicotine oxidase](#)
- 1.5.3.6 [\(R\)-6-hydroxynicotine oxidase](#)
- 1.5.3.7 [L-pipecolate oxidase](#)
- 1.5.3.8 [\(S\)-tetrahydroprotoberberine oxidase](#)
- 1.5.3.9 [reticuline oxidase](#)
- 1.5.3.10 [dimethylglycine oxidase](#)
- 1.5.3.11 [polyamine oxidase](#)
- 1.5.3.12 [Dihydrobenzophenanthridine oxidase](#)
- 1.5.4.1 [pyrimidodiazepine synthase](#)
- 1.5.5.1 [electron-transferring-flavoprotein dehydrogenase](#)
- 1.5.7.1 [methylenetetrahydrofolate reductase \(ferredoxin\)](#)
- 1.5.8.1 [dimethylamine dehydrogenase](#)
- 1.5.8.2 [trimethylamine dehydrogenase](#)
- 1.5.99.1 [sarcosine dehydrogenase](#)
- 1.5.99.2 [dimethylglycine dehydrogenase](#)
- 1.5.99.3 [L-pipecolate dehydrogenase](#)
- 1.5.99.4 [nicotine dehydrogenase](#)
- 1.5.99.5 [methylglutamate dehydrogenase](#)
- 1.5.99.6 [spermidine dehydrogenase](#)
- 1.5.99.7 [trimethylamine dehydrogenase](#)
- 1.5.99.8 [proline dehydrogenase](#)
- 1.5.99.9 [Methylenetetrahydromethanopterin dehydrogenase](#)
- 1.5.99.10 [dimethylamine dehydrogenase](#)
- 1.5.99.11 [5,10-methylenetetrahydromethanopterin reductase](#)
- 1.5.99.12 [cytokinin dehydrogenase](#)
- 1.6.1.1 [NAD\(P\)+ transhydrogenase \(B-specific\)](#)
- 1.6.1.2 [NAD\(P\)+ transhydrogenase \(AB-specific\)](#)
- 1.6.2.1 [NADH2 cytochrome c reductase](#)
- 1.6.2.2 [cytochrome-b5 reductase](#)

- 1.6.2.3 [cytochrome reductase \(NADPH\)](#)
- 1.6.2.4 [NADPH-hemoprotein reductase](#)
- 1.6.2.5 [NADPH-cytochrome-c2 reductase](#)
- 1.6.2.6 [leghemoglobin reductase](#)
- 1.6.3.1 [NAD\(P\)H oxidase](#)
- 1.6.4.1 [cystine reductase \(NADH\)](#)
- 1.6.4.2 [glutathione reductase \(NADPH\)](#)
- 1.6.4.3 [dihydrolipoamide reductase \(NAD<sup>+</sup>\)](#)
- 1.6.4.4 [protein-disulfide reductase \[NAD\(P\)H\]](#)
- 1.6.4.5 [thioredoxin reductase \(NADPH\)](#)
- 1.6.4.6 [CoA-glutathione reductase \(NADPH\)](#)
- 1.6.4.7 [asparagurate reductase \(NADH\)](#)
- 1.6.4.8 [trypanothione reductase](#)
- 1.6.4.9 [bis-gamma-glutamylcystine reductase \(NADPH\)](#)
- 1.6.4.10 [CoA-disulfide reductase \(NADH\)](#)
- 1.6.5.1 [quinone reductase](#)
- 1.6.5.2 [NAD\(P\)H dehydrogenase \(quinone\)](#)
- 1.6.5.3 [NADH dehydrogenase \(ubiquinone\)](#)
- 1.6.5.4 [monodehydroascorbate reductase \(NADH\)](#)
- 1.6.5.5 [NADPH:quinone reductase](#)
- 1.6.5.6 [p-benzoquinone reductase \(NADPH\)](#)
- 1.6.5.7 [2-hydroxy-1,4-benzoquinone reductase](#)
- 1.6.6.1 [nitrate reductase \(NADH\)](#)
- 1.6.6.2 [nitrate reductase \[NAD\(P\)H\]](#)
- 1.6.6.3 [nitrate reductase \(NADPH\)](#)
- 1.6.6.4 [nitrite reductase \[NAD\(P\)H\]](#)
- 1.6.6.5 [Recommended Name never specified](#)
- 1.6.6.6 [hyponitrite reductase](#)
- 1.6.6.7 [azobenzene reductase](#)
- 1.6.6.8 [GMP reductase](#)
- 1.6.6.9 [trimethylamine-N-oxide reductase](#)
- 1.6.6.10 [nitroquinoline-N-oxide reductase](#)
- 1.6.6.11 [hydroxylamine reductase \(NADH\)](#)
- 1.6.6.12 [4-\(dimethylamino\)phenylazoxybenzene reductase](#)
- 1.6.6.13 [N-hydroxy-2-acetamidofluorene reductase](#)
- 1.6.7.1 [ferredoxin-NADP<sup>+</sup> reductase](#)
- 1.6.7.2 [rubredoxin-NAD<sup>+</sup> reductase](#)
- 1.6.8.1 [NAD\(P\)H dehydrogenase \(FMN\)](#)
- 1.6.8.2 [NADPH dehydrogenase \(flavin\)](#)
- 1.6.99.1 [NADPH dehydrogenase](#)
- 1.6.99.2 [NAD\(P\)H dehydrogenase \(quinone\)](#)
- 1.6.99.3 [NADH dehydrogenase](#)
- 1.6.99.4 [nitrite reductase](#)
- 1.6.99.5 [NADH dehydrogenase \(quinone\)](#)
- 1.6.99.6 [NADPH dehydrogenase \(quinone\)](#)
- 1.6.99.7 [dihydropteridine reductase](#)
- 1.6.99.8 [aquacobalamin reductase](#)
- 1.6.99.9 [cob\(II\)alamin reductase](#)
- 1.6.99.10 [dihydropteridine reductase \(NADH\)](#)
- 1.6.99.11 [aquacobalamin reductase \(NADPH\)](#)
- 1.6.99.12 [cyanocobalamin reductase \(NADPH, cyanide-eliminating\)](#)

- 1.6.99.13 ferric-chelate reductase
- 1.7.1.1 nitrate reductase (NADH)
- 1.7.1.2 Nitrate reductase [NAD(P)H]
- 1.7.1.3 nitrate reductase (NADPH)
- 1.7.1.4 nitrite reductase [NAD(P)H]
- 1.7.1.5 hyponitrite reductase
- 1.7.1.6 azobenzene reductase
- 1.7.1.7 GMP reductase
- 1.7.1.8 Recommended Name never specified
- 1.7.1.9 nitroquinoline-N-oxide reductase
- 1.7.1.10 hydroxylamine reductase (NADH)
- 1.7.1.11 4-(dimethylamino)phenylazoxybenzene reductase
- 1.7.1.12 N-hydroxy-2-acetamidofluorene reductase
- 1.7.1.13 preQ1 synthase
- 1.7.2.1 nitrite reductase (NO-forming)
- 1.7.2.2 nitrite reductase (cytochrome; ammonia-forming)
- 1.7.2.3 trimethylamine-N-oxide reductase (cytochrome c)
- 1.7.3.1 nitroalkane oxidase
- 1.7.3.2 acetylindoxyl oxidase
- 1.7.3.3 urate oxidase
- 1.7.3.4 hydroxylamine oxidase
- 1.7.3.5 3-aci-nitropropanoate oxidase
- 1.7.7.1 ferredoxin-nitrite reductase
- 1.7.7.2 ferredoxin-nitrate reductase
- 1.7.99.1 hydroxylamine reductase
- 1.7.99.2 nitric-oxide reductase
- 1.7.99.3 nitrite reductase
- 1.7.99.4 nitrate reductase
- 1.7.99.5 5,10-methylenetetrahydrofolate reductase (FADH2)
- 1.7.99.6 nitrous-oxide reductase
- 1.7.99.7 nitric-oxide reductase
- 1.7.99.8 hydroxylamine oxidoreductase
- 1.8.1.1 cysteamine dehydrogenase
- 1.8.1.B1 thioredoxin glutathione reductase
- 1.8.1.2 sulfite reductase (NADPH)
- 1.8.1.3 hypotaurine dehydrogenase
- 1.8.1.4 dihydrolipoyl dehydrogenase
- 1.8.1.5 2-oxopropyl-CoM reductase (carboxylating)
- 1.8.1.6 cystine reductase
- 1.8.1.7 glutathione-disulfide reductase
- 1.8.1.8 protein-disulfide reductase
- 1.8.1.9 thioredoxin-disulfide reductase
- 1.8.1.10 CoA-glutathione reductase
- 1.8.1.11 asparagusic acid reductase
- 1.8.1.12 trypanothione-disulfide reductase
- 1.8.1.13 bis-gamma-glutamylcystine reductase
- 1.8.1.14 CoA-disulfide reductase
- 1.8.1.15 mycothione reductase
- 1.8.2.1 sulfite dehydrogenase
- 1.8.2.2 thiosulfate dehydrogenase
- 1.8.2.3 Recommended Name never specified

- 1.8.3.1 [sulfite oxidase](#)
- 1.8.3.2 [thiol oxidase](#)
- 1.8.3.3 [glutathione oxidase](#)
- 1.8.3.4 [methanethiol oxidase](#)
- 1.8.3.5 [prenylcysteine oxidase](#)
- 1.8.4.1 [glutathione-homocystine transhydrogenase](#)
- 1.8.4.2 [protein-disulfide reductase \(glutathione\)](#)
- 1.8.4.3 [glutathione-CoA-glutathione transhydrogenase](#)
- 1.8.4.B3 [thioredoxin-independent methionine sulfoxide reductases B](#)
- 1.8.4.4 [glutathione-cystine transhydrogenase](#)
- 1.8.4.5 [methionine-S-oxide reductase](#)
- 1.8.4.6 [protein-methionine-S-oxide reductase](#)
- 1.8.4.7 [enzyme-thiol transhydrogenase \(glutathione-disulfide\)](#)
- 1.8.4.8 [phosphoadenylyl-sulfate reductase \(thioredoxin\)](#)
- 1.8.4.9 [adenylyl-sulfate reductase \(glutathione\)](#)
- 1.8.4.10 [adenylyl-sulfate reductase \(thioredoxin\)](#)
- 1.8.4.11 [peptide-methionine \(S\)-S-oxide reductase](#)
- 1.8.4.12 [peptide-methionine \(R\)-S-oxide reductase](#)
- 1.8.4.13 [L-methionine \(S\)-S-oxide reductase](#)
- 1.8.4.14 [L-methionine \(R\)-S-oxide reductase](#)
- 1.8.5.1 [glutathione dehydrogenase \(ascorbate\)](#)
- 1.8.5.2 [thiosulfate dehydrogenase \(quinone\)](#)
- 1.8.6.1 [nitrate-ester reductase](#)
- 1.8.7.1 [sulfite reductase \(ferredoxin\)](#)
- 1.8.98.1 [CoB-CoM heterodisulfide reductase](#)
- 1.8.98.2 [sulfiredoxin](#)
- 1.8.99.1 [sulfite reductase](#)
- 1.8.99.2 [adenylyl-sulfate reductase](#)
- 1.8.99.3 [hydrogensulfite reductase](#)
- 1.8.99.4 [phosphoadenosine-phosphosulfate reductase](#)
- 1.9.3.1 [cytochrome-c oxidase](#)
- 1.9.3.2 [Pseudomonas cytochrome oxidase](#)
- 1.9.6.1 [nitrate reductase \(cytochrome\)](#)
- 1.9.99.1 [iron-cytochrome-c reductase](#)
- 1.10.1.1 [trans-acenaphthene-1,2-diol dehydrogenase](#)
- 1.10.2.1 [L-ascorbate-cytochrome-b5 reductase](#)
- 1.10.2.2 [ubiquinol-cytochrome-c reductase](#)
- 1.10.3.1 [catechol oxidase](#)
- 1.10.3.2 [laccase](#)
- 1.10.3.3 [L-ascorbate oxidase](#)
- 1.10.3.4 [o-aminophenol oxidase](#)
- 1.10.3.5 [3-hydroxyanthranilate oxidase](#)
- 1.10.3.6 [rifamycin-B oxidase](#)
- 1.10.3.7 [sulochrin oxidase \[\(+\)-bisdechlorogaeodin-forming\]](#)
- 1.10.3.8 [sulochrin oxidase \(\(-\)bisdechlorogaeodin-forming\)](#)
- 1.10.99.1 [plastoquinol-plastocyanin reductase](#)
- 1.10.99.2 [ribosyldihydronicotinamide dehydrogenase \(quinone\)](#)
- 1.10.99.3 [violaxanthin de-epoxidase](#)
- 1.11.1.1 [NADH peroxidase](#)
- 1.11.1.B2 [chloride peroxidase \(vanadium-containing\)](#)
- 1.11.1.2 [NADPH peroxidase](#)

- 1.11.1.3 [fatty-acid peroxidase](#)
- 1.11.1.B4 [bromide peroxidase \(vanadium-containing\)](#)
- 1.11.1.4 [Recommended Name never specified](#)
- 1.11.1.5 [cytochrome-c peroxidase](#)
- 1.11.1.6 [catalase](#)
- 1.11.1.B6 [iodide peroxidase \(vanadium-containing\)](#)
- 1.11.1.B7 [bromide peroxidase \(heme-containing\)](#)
- 1.11.1.7 [peroxidase](#)
- 1.11.1.B8 [bromide peroxidase \(metal-containing\)](#)
- 1.11.1.8 [iodide peroxidase](#)
- 1.11.1.9 [glutathione peroxidase](#)
- 1.11.1.10 [chloride peroxidase](#)
- 1.11.1.11 [L-ascorbate peroxidase](#)
- 1.11.1.12 [phospholipid-hydroperoxide glutathione peroxidase](#)
- 1.11.1.13 [manganese peroxidase](#)
- 1.11.1.14 [lignin peroxidase](#)
- 1.11.1.15 [peroxiredoxin](#)
- 1.11.1.16 [versatile peroxidase](#)
- 1.12.1.1 [peroxidase](#)
- 1.12.1.2 [hydrogen dehydrogenase](#)
- 1.12.1.3 [hydrogen dehydrogenase \(NADP+\)](#)
- 1.12.2.1 [cytochrome-c3 hydrogenase](#)
- 1.12.5.1 [hydrogen:quinone oxidoreductase](#)
- 1.12.7.1 [ferredoxin hydrogenase](#)
- 1.12.7.2 [ferredoxin hydrogenase](#)
- 1.12.98.1 [coenzyme F420 hydrogenase](#)
- 1.12.98.2 [5,10-methenyltetrahydromethanopterin hydrogenase](#)
- 1.12.98.3 [Methanosarcina-phenazine hydrogenase](#)
- 1.12.99.1 [coenzyme F420 hydrogenase](#)
- 1.12.99.2 [coenzyme-M-7-mercaptopheptanoylthreonine-phosphate-heterodisulfide hydrogenase](#)
- 1.12.99.3 [hydrogen:quinone oxidoreductase](#)
- 1.12.99.4 [N5,N10-methenyltetrahydromethanopterin hydrogenase](#)
- 1.12.99.5 [3,4-dihydroxyquinoline 2,4-dioxygenase](#)
- 1.12.99.6 [hydrogenase \(acceptor\)](#)
- 1.13.11.B1 [9,14-linoleate diol synthase](#)
- 1.13.11.1 [catechol 1,2-dioxygenase](#)
- 1.13.11.2 [catechol 2,3-dioxygenase](#)
- 1.13.11.3 [protocatechuate 3,4-dioxygenase](#)
- 1.13.11.4 [gentisate 1,2-dioxygenase](#)
- 1.13.11.5 [homogentisate 1,2-dioxygenase](#)
- 1.13.11.6 [3-hydroxyanthranilate 3,4-dioxygenase](#)
- 1.13.11.7 [3,4-dihydroxyphenylacetate 3,4-dioxygenase](#)
- 1.13.11.8 [protocatechuate 4,5-dioxygenase](#)
- 1.13.11.9 [2,5-dihydroxypyridine 5,6-dioxygenase](#)
- 1.13.11.10 [7,8-dihydroxykynureenate 8,8a-dioxygenase](#)
- 1.13.11.11 [tryptophan 2,3-dioxygenase](#)
- 1.13.11.12 [lipoxygenase](#)
- 1.13.11.13 [ascorbate 2,3-dioxygenase](#)
- 1.13.11.14 [2,3-dihydroxybenzoate 3,4-dioxygenase](#)
- 1.13.11.15 [3,4-dihydroxyphenylacetate 2,3-dioxygenase](#)
- 1.13.11.16 [3-carboxyethylcatechol 2,3-dioxygenase](#)

- 1.13.11.17 [indole 2,3-dioxygenase](#)  
1.13.11.18 [sulfur dioxygenase](#)  
1.13.11.19 [cysteamine dioxygenase](#)  
1.13.11.20 [cysteine dioxygenase](#)  
1.13.11.21 [beta-carotene 15,15'-dioxygenase](#)  
1.13.11.22 [caffeate 3,4-dioxygenase](#)  
1.13.11.23 [2,3-dihydroxyindole 2,3-dioxygenase](#)  
1.13.11.24 [quercetin 2,3-dioxygenase](#)  
1.13.11.25 [3,4-dihydroxy-9,10-secoandrosta-1,3,5\(10\)-triene-9,17-dione 4,5-dioxygenase](#)  
1.13.11.26 [peptide-tryptophan 2,3-dioxygenase](#)  
1.13.11.27 [4-hydroxyphenylpyruvate dioxygenase](#)  
1.13.11.28 [2,3-dihydroxybenzoate 2,3-dioxygenase](#)  
1.13.11.29 [stizolobate synthase](#)  
1.13.11.30 [stizolobinate synthase](#)  
1.13.11.31 [arachidonate 12-lipoxygenase](#)  
1.13.11.32 [2-nitropropane dioxygenase](#)  
1.13.11.33 [arachidonate 15-lipoxygenase](#)  
1.13.11.34 [arachidonate 5-lipoxygenase](#)  
1.13.11.35 [pyrogallol 1,2-oxygenase](#)  
1.13.11.36 [chloridazon-catechol dioxygenase](#)  
1.13.11.37 [hydroxyquinol 1,2-dioxygenase](#)  
1.13.11.38 [1-hydroxy-2-naphthoate 1,2-dioxygenase](#)  
1.13.11.39 [biphenyl-2,3-diol 1,2-dioxygenase](#)  
1.13.11.40 [arachidonate 8-lipoxygenase](#)  
1.13.11.41 [2,4'-dihydroxyacetophenone dioxygenase](#)  
1.13.11.42 [indoleamine-pyrrole 2,3-dioxygenase](#)  
1.13.11.43 [lignostilbene alphabeta-dioxygenase](#)  
1.13.11.44 [linoleate diol synthase](#)  
1.13.11.45 [linoleate 11-lipoxygenase](#)  
1.13.11.46 [4-hydroxymandelate synthase](#)  
1.13.11.47 [3-hydroxy-4-oxoquinoline 2,4-dioxygenase](#)  
1.13.11.48 [3-hydroxy-2-methylquinolin-4-one 2,4-dioxygenase](#)  
1.13.11.49 [chlorite O<sub>2</sub>-lyase](#)  
1.13.11.50 [acetylacetone-cleaving enzyme](#)  
1.13.11.51 [9-cis-epoxycarotenoid dioxygenase](#)  
1.13.11.52 [indoleamine 2,3-dioxygenase](#)  
1.13.11.53 [acireductone dioxygenase \(Ni<sup>2+</sup>-requiring\)](#)  
1.13.11.54 [acireductone dioxygenase \[iron\(II\)-requiring\]](#)  
1.13.11.55 [sulfur oxygenase/reductase](#)  
1.13.12.1 [arginine 2-monooxygenase](#)  
1.13.12.2 [lysine 2-monooxygenase](#)  
1.13.12.3 [tryptophan 2-monooxygenase](#)  
1.13.12.4 [lactate 2-monooxygenase](#)  
1.13.12.5 [Renilla-luciferin 2-monooxygenase](#)  
1.13.12.6 [Cypripidina-luciferin 2-monooxygenase](#)  
1.13.12.7 [Photinus-luciferin 4-monooxygenase \(ATP-hydrolysing\)](#)  
1.13.12.8 [Watasenia-luciferin 2-monooxygenase](#)  
1.13.12.9 [phenylalanine 2-monooxygenase](#)  
1.13.12.10 [lysine 6-monooxygenase](#)  
1.13.12.11 [methylphenyltetrahydropyridine N-monooxygenase](#)  
1.13.12.12 [apo-beta-carotenoid-14',13'-dioxygenase](#)

- 1.13.12.13 [Oplophorus-luciferin 2-monooxygenase](#)
- 1.13.12.14 [chlorophyllide-a oxygenase](#)
- 1.13.12.15 [3,4-dihydroxyphenylalanine oxidative deaminase](#)
- 1.13.99.1 [inositol oxygenase](#)
- 1.13.99.2 [benzoate 1,2-dioxygenase](#)
- 1.13.99.3 [tryptophan 2'-dioxygenase](#)
- 1.13.99.4 [4-chlorophenylacetate 3,4-dioxygenase](#)
- 1.13.99.5 [3,4-dihydroxyquinoline 2,4-dioxygenase](#)
- 1.14.11.1 [gamma-butyrobetaine dioxygenase](#)
- 1.14.11.B1 [\[histone-H3\]-lysine-4-demethylase](#)
- 1.14.11.2 [procollagen-proline dioxygenase](#)
- 1.14.11.B2 [\[histone-H3\]-lysine-9-demethylase](#)
- 1.14.11.3 [pyrimidine-deoxynucleoside 2'-dioxygenase](#)
- 1.14.11.4 [procollagen-lysine 5-dioxygenase](#)
- 1.14.11.5 [5-hydroxymethyluracil,2-oxoglutarate dioxygenase](#)
- 1.14.11.6 [thymine dioxygenase](#)
- 1.14.11.7 [procollagen-proline 3-dioxygenase](#)
- 1.14.11.8 [trimethyllysine dioxygenase](#)
- 1.14.11.9 [flavanone 3-dioxygenase](#)
- 1.14.11.10 [pyrimidine-deoxynucleoside 1'-dioxygenase](#)
- 1.14.11.11 [hyoscyamine \(6S\)-dioxygenase](#)
- 1.14.11.12 [gibberellin-44 dioxygenase](#)
- 1.14.11.13 [gibberellin 2beta-dioxygenase](#)
- 1.14.11.14 [6beta-hydroxyhyoscyamine epoxidase](#)
- 1.14.11.15 [gibberellin 3beta-dioxygenase](#)
- 1.14.11.16 [peptide-aspartate beta-dioxygenase](#)
- 1.14.11.17 [taurine dioxygenase](#)
- 1.14.11.18 [phytanoyl-CoA dioxygenase](#)
- 1.14.11.19 [leucocyanidin oxygenase](#)
- 1.14.11.20 [deacetoxvindoline 4-hydroxylase](#)
- 1.14.11.21 [clavaminate synthase](#)
- 1.14.11.22 [flavone synthase](#)
- 1.14.11.23 [flavonol synthase](#)
- 1.14.11.24 [2'-deoxymugineic-acid 2'-dioxygenase](#)
- 1.14.11.25 [mugineic-acid 3-dioxygenase](#)
- 1.14.11.26 [deacetoxyccephalosporin-C hydroxylase](#)
- 1.14.11.27 [\[histone-H3\]-lysine-36 demethylase](#)
- 1.14.11.28 [proline 3-hydroxylase](#)
- 1.14.12.1 [anthranilate 1,2-dioxygenase \(deaminating, decarboxylating\)](#)
- 1.14.12.2 [anthranilate 2,3-dioxygenase \(deaminating\)](#)
- 1.14.12.3 [benzene 1,2-dioxygenase](#)
- 1.14.12.4 [3-hydroxy-2-methylpyridinecarboxylate dioxygenase](#)
- 1.14.12.5 [5-pyridoxate dioxygenase](#)
- 1.14.12.6 [2-hydroxycyclohexanone 2-monooxygenase](#)
- 1.14.12.7 [phthalate 4,5-dioxygenase](#)
- 1.14.12.8 [4-sulfobenzoate 3,4-dioxygenase](#)
- 1.14.12.9 [4-chlorophenylacetate 3,4-dioxygenase](#)
- 1.14.12.10 [benzoate 1,2-dioxygenase](#)
- 1.14.12.11 [toluene dioxygenase](#)
- 1.14.12.12 [naphthalene 1,2-dioxygenase](#)
- 1.14.12.13 [2-chlorobenzoate 1,2-dioxygenase](#)

- 1.14.12.14 [2-Aminobenzenesulfonate 2,3-dioxygenase](#)
- 1.14.12.15 [Terephthalate 1,2-dioxygenase](#)
- 1.14.12.16 [2-Hydroxyquinoline 5,6-dioxygenase](#)
- 1.14.12.17 [nitric oxide dioxygenase](#)
- 1.14.12.18 [biphenyl 2,3-dioxygenase](#)
- 1.14.12.19 [3-phenylpropanoate dioxygenase](#)
- 1.14.12.20 [pheophorbide a oxygenase](#)
- 1.14.13.B1 [camphor 1,6-monooxygenase](#)
- 1.14.13.1 [salicylate 1-monooxygenase](#)
- 1.14.13.2 [4-hydroxybenzoate 3-monooxygenase](#)
- 1.14.13.3 [4-hydroxyphenylacetate 3-monooxygenase](#)
- 1.14.13.B3 [nicotine demethylase](#)
- 1.14.13.4 [melilotate 3-monooxygenase](#)
- 1.14.13.5 [imidazoleacetate 4-monooxygenase](#)
- 1.14.13.6 [orcinol 2-monooxygenase](#)
- 1.14.13.7 [phenol 2-monooxygenase](#)
- 1.14.13.8 [flavin-containing monooxygenase](#)
- 1.14.13.9 [kynurenine 3-monooxygenase](#)
- 1.14.13.10 [2,6-dihydroxypyridine 3-monooxygenase](#)
- 1.14.13.11 [trans-cinnamate 4-monooxygenase](#)
- 1.14.13.12 [benzoate 4-monooxygenase](#)
- 1.14.13.13 [calcidiol 1-monooxygenase](#)
- 1.14.13.14 [trans-cinnamate 2-monooxygenase](#)
- 1.14.13.15 [cholestanetriol 26-monooxygenase](#)
- 1.14.13.16 [cyclopentanone monooxygenase](#)
- 1.14.13.17 [cholesterol 7alpha-monooxygenase](#)
- 1.14.13.18 [4-hydroxyphenylacetate 1-monooxygenase](#)
- 1.14.13.19 [taxifolin 8-monooxygenase](#)
- 1.14.13.20 [2,4-dichlorophenol 6-monooxygenase](#)
- 1.14.13.21 [flavonoid 3'-monooxygenase](#)
- 1.14.13.22 [cyclohexanone monooxygenase](#)
- 1.14.13.23 [3-hydroxybenzoate 4-monooxygenase](#)
- 1.14.13.24 [3-hydroxybenzoate 6-monooxygenase](#)
- 1.14.13.25 [methane monooxygenase](#)
- 1.14.13.26 [phosphatidylcholine 12-monooxygenase](#)
- 1.14.13.27 [4-aminobenzoate 1-monooxygenase](#)
- 1.14.13.28 [3,9-dihydroxypterocarpan 6a-monooxygenase](#)
- 1.14.13.29 [4-nitrophenol 2-monooxygenase](#)
- 1.14.13.30 [leukotriene-B4 20-monooxygenase](#)
- 1.14.13.31 [2-nitrophenol 2-monooxygenase](#)
- 1.14.13.32 [albendazole monooxygenase](#)
- 1.14.13.33 [4-hydroxybenzoate 3-monooxygenase \[NAD\(P\)H\]](#)
- 1.14.13.34 [leukotriene-E4 20-monooxygenase](#)
- 1.14.13.35 [anthranilate 3-monooxygenase \(deaminating\)](#)
- 1.14.13.36 [5-O-\(4-coumaroyl\)-D-quinate 3'-monooxygenase](#)
- 1.14.13.37 [methyltetrahydroprotoberberine 14-monooxygenase](#)
- 1.14.13.38 [anhydrotetracycline monooxygenase](#)
- 1.14.13.39 [nitric-oxide synthase](#)
- 1.14.13.40 [anthraniloyl-CoA monooxygenase](#)
- 1.14.13.41 [tyrosine N-monooxygenase](#)
- 1.14.13.42 [hydroxyphenylacetonitrile 2-monooxygenase](#)

- 1.14.13.43 questin monooxygenase  
1.14.13.44 2-hydroxybiphenyl 3-monooxygenase  
1.14.13.45 CMP-N-acetylneuraminate monooxygenase  
1.14.13.46 (-)-menthol monooxygenase  
1.14.13.47 (S)-limonene 3-monooxygenase  
1.14.13.48 (S)-limonene 6-monooxygenase  
1.14.13.49 (S)-limonene 7-monooxygenase  
1.14.13.50 pentachlorophenol monooxygenase  
1.14.13.51 6-oxocineole dehydrogenase  
1.14.13.52 isoflavone 3'-hydroxylase  
1.14.13.53 4'-methoxyisoflavone 2'-hydroxylase  
1.14.13.54 Ketosteroid monooxygenase  
1.14.13.55 Protopine 6-monooxygenase  
1.14.13.56 Dihydrosanguinarine 10-monooxygenase  
1.14.13.57 Dihydrochelirubine 12-monooxygenase  
1.14.13.58 Benzoyl-CoA 3-monooxygenase  
1.14.13.59 L-Lysine 6-monooxygenase (NADPH)  
1.14.13.60 27-Hydroxycholesterol 7alpha-monooxygenase  
1.14.13.61 2-Hydroxyquinoline 8-monooxygenase  
1.14.13.62 4-Hydroxyquinoline 3-monooxygenase  
1.14.13.63 3-Hydroxyphenylacetate 6-hydroxylase  
1.14.13.64 4-Hydroxybenzoate 1-hydroxylase  
1.14.13.65 2-hydroxyquinoline 8-monooxygenase  
1.14.13.66 2-Hydroxycyclohexanone 2-monooxygenase  
1.14.13.67 quinine 3-monooxygenase  
1.14.13.68 4-hydroxyphenylacetaldehyde oxime monooxygenase  
1.14.13.69 alkene monooxygenase  
1.14.13.70 sterol 14-demethylase  
1.14.13.71 N-methylcoclaurine 3'-monooxygenase  
1.14.13.72 methylsterol monooxygenase  
1.14.13.73 tabersonine 16-hydroxylase  
1.14.13.74 7-deoxyloganin 7-hydroxylase  
1.14.13.75 vinorine hydroxylase  
1.14.13.76 taxane 10beta-hydroxylase  
1.14.13.77 taxane 13alpha-hydroxylase  
1.14.13.78 ent-kaurene oxidase  
1.14.13.79 ent-kaurenoic acid oxidase  
1.14.13.80 (R)-limonene 6-monooxygenase  
1.14.13.81 magnesium-protoporphyrin IX monomethyl ester (oxidative) cyclase  
1.14.13.82 vanillate monooxygenase  
1.14.13.83 precorrin-3B synthase  
1.14.13.84 4-hydroxyacetophenone monooxygenase  
1.14.13.85 glyceollin synthase  
1.14.13.86 2-hydroxyisoflavanone synthase  
1.14.13.87 licodione synthase  
1.14.13.88 flavonoid 3',5'-hydroxylase  
1.14.13.89 isoflavone 2'-hydroxylase  
1.14.13.90 zeaxanthin epoxidase  
1.14.13.91 deoxysarpagine hydroxylase  
1.14.13.92 phenylacetone monooxygenase  
1.14.13.93 (+)-abscisic acid 8'-hydroxylase

- 1.14.13.94 [lithocholate 6beta-hydroxylase](#)  
1.14.13.95 [7alpha-hydroxycholest-4-en-3-one 12alpha-hydroxylase](#)  
1.14.13.96 [5beta-cholestane-3alpha,7alpha-diol 12alpha-hydroxylase](#)  
1.14.13.97 [taurochenodeoxycholate 6alpha-hydroxylase](#)  
1.14.13.98 [cholesterol 24-hydroxylase](#)  
1.14.13.99 [24-hydroxycholesterol 7alpha-hydroxylase](#)  
1.14.13.100 [25-hydroxycholesterol 7alpha-hydroxylase](#)  
1.14.13.101 [senecionine N-oxygenase](#)  
1.14.13.102 [psoralen synthase](#)  
1.14.13.103 [8-dimethylallylnaringenin 2'-hydroxylase](#)  
1.14.13.104 [\(+\)-menthofuran synthase](#)  
1.14.13.105 [monocyclic monoterpane ketone monooxygenase](#)  
1.14.13.106 [epi-isozizaene 5-monooxygenase](#)  
1.14.14.B1 [tryptophan 7-halogenase](#)  
1.14.14.1 [unspecific monooxygenase](#)  
1.14.14.2 [benzopyrene 3-monooxygenase](#)  
1.14.14.3 [alkanal monooxygenase \(FMN-linked\)](#)  
1.14.14.4 [choline monooxygenase](#)  
1.14.14.5 [alkanesulfonate monooxygenase](#)  
1.14.15.1 [camphor 5-monooxygenase](#)  
1.14.15.2 [camphor 1,2-monooxygenase](#)  
1.14.15.3 [alkane 1-monooxygenase](#)  
1.14.15.4 [steroid 11beta-monooxygenase](#)  
1.14.15.5 [corticosterone 18-monooxygenase](#)  
1.14.15.6 [cholesterol monooxygenase \(side-chain-cleaving\)](#)  
1.14.15.7 [choline monooxygenase](#)  
1.14.16.1 [phenylalanine 4-monooxygenase](#)  
1.14.16.2 [tyrosine 3-monooxygenase](#)  
1.14.16.3 [anthranilate 3-monooxygenase](#)  
1.14.16.4 [tryptophan 5-monooxygenase](#)  
1.14.16.5 [glyceryl-ether monooxygenase](#)  
1.14.16.6 [mandelate 4-monooxygenase](#)  
1.14.17.1 [dopamine beta-monooxygenase](#)  
1.14.17.2 [4-coumarate 3-monooxygenase](#)  
1.14.17.3 [peptidylglycine monooxygenase](#)  
1.14.17.4 [aminocyclopropanecarboxylate oxidase](#)  
1.14.18.1 [monophenol monooxygenase](#)  
1.14.18.2 [CMP-N-acetylneuraminate monooxygenase](#)  
1.14.19.1 [stearoyl-CoA 9-desaturase](#)  
1.14.19.2 [acyl-\[acyl-carrier-protein\] desaturase](#)  
1.14.19.B2 [DELTA11-fatty-acid desaturase](#)  
1.14.19.B3 [DELTA12-fatty-acid desaturase](#)  
1.14.19.3 [linoleoyl-CoA desaturase](#)  
1.14.19.4 [DELTA8-fatty-acid desaturase](#)  
1.14.19.5 [DELTA11-fatty-acid desaturase](#)  
1.14.19.6 [DELTA12-fatty-acid desaturase](#)  
1.14.20.1 [deacetoxyccephalosporin-C synthase](#)  
1.14.21.1 [\(S\)-stylopine synthase](#)  
1.14.21.2 [\(S\)-cheilanthifoline synthase](#)  
1.14.21.3 [berbamunine synthase](#)  
1.14.21.4 [salutaridine synthase](#)

- 1.14.21.5 [\(S\)-canadine synthase](#)  
1.14.21.6 [lathosterol oxidase](#)  
1.14.21.7 [biflaviolin synthase](#)  
1.14.99.B1 [campesterol 22-hydroxylase](#)  
1.14.99.1 [prostaglandin-endoperoxide synthase](#)  
1.14.99.2 [kynurenine 7,8-hydroxylase](#)  
1.14.99.3 [heme oxygenase](#)  
1.14.99.4 [progesterone monooxygenase](#)  
1.14.99.5 [stearoyl-CoA desaturase](#)  
1.14.99.6 [acyl-\[acyl-carrier-protein\] desaturase](#)  
1.14.99.7 [squalene monooxygenase](#)  
1.14.99.8 [arene monooxygenase \(epoxidizing\)](#)  
1.14.99.9 [steroid 17alpha-monooxygenase](#)  
1.14.99.10 [steroid 21-monooxygenase](#)  
1.14.99.11 [estradiol 6beta-monooxygenase](#)  
1.14.99.12 [androst-4-ene-3,17-dione monooxygenase](#)  
1.14.99.13 [3-hydroxybenzoate 4-monooxygenase](#)  
1.14.99.14 [progesterone 11alpha-monooxygenase](#)  
1.14.99.15 [4-methoxybenzoate monooxygenase \(O-demethylating\)](#)  
1.14.99.16 [methylsterol monooxygenase](#)  
1.14.99.17 [glyceryl-ether monooxygenase](#)  
1.14.99.18 [CMP-N-acetylneuraminate monooxygenase](#)  
1.14.99.19 [plasmanylethanolamine desaturase](#)  
1.14.99.20 [phylloquinone monooxygenase \(2,3-epoxidizing\)](#)  
1.14.99.21 [Latia-luciferin monooxygenase \(demethylating\)](#)  
1.14.99.22 [ecdysone 20-monooxygenase](#)  
1.14.99.23 [3-hydroxybenzoate 2-monooxygenase](#)  
1.14.99.24 [steroid 9alpha-monooxygenase](#)  
1.14.99.25 [linoleoyl-CoA desaturase](#)  
1.14.99.26 [2-hydroxypyridine 5-monooxygenase](#)  
1.14.99.27 [juglone 3-monooxygenase](#)  
1.14.99.28 [linalool 8-monooxygenase](#)  
1.14.99.29 [deoxyhypusine monooxygenase](#)  
1.14.99.30 [Carotene 7,8-desaturase](#)  
1.14.99.31 [myristoyl-CoA 11-\(E\) desaturase](#)  
1.14.99.32 [myristoyl-CoA 11-\(Z\) desaturase](#)  
1.14.99.33 [DELTA12-fatty acid dehydrogenase](#)  
1.14.99.34 [monoprenyl isoflavone epoxidase](#)  
1.14.99.35 [thiophene-2-carbonyl-CoA monooxygenase](#)  
1.14.99.36 [beta-carotene 15,15'-monooxygenase](#)  
1.14.99.37 [taxadiene 5alpha-hydroxylase](#)  
1.14.99.38 [cholesterol 25-hydroxylase](#)  
1.15.1.1 [superoxide dismutase](#)  
1.15.1.2 [superoxide reductase](#)  
1.16.1.1 [mercury\(II\) reductase](#)  
1.16.1.2 [diferric-transferrin reductase](#)  
1.16.1.3 [aquacobalamin reductase](#)  
1.16.1.4 [cob\(II\)alamin reductase](#)  
1.16.1.5 [aquacobalamin reductase \(NADPH\)](#)  
1.16.1.6 [cyanocobalamin reductase \(cyanide-eliminating\)](#)  
1.16.1.7 [ferric-chelate reductase](#)

- 1.16.1.8 [methionine synthase] reductase
- 1.16.3.1 ferroxidase
- 1.16.8.1 cob(II)yrinic acid a,c-diamide reductase
- 1.17.1.1 CDP-4-dehydro-6-deoxyglucose reductase
- 1.17.1.2 4-hydroxy-3-methylbut-2-enyl diphosphate reductase
- 1.17.1.3 leucoanthocyanidin reductase
- 1.17.1.4 xanthine dehydrogenase
- 1.17.1.5 nicotinate dehydrogenase
- 1.17.1.6 bile-acid 7alpha-dehydroxylase
- 1.17.3.1 pteridine oxidase
- 1.17.3.2 xanthine oxidase
- 1.17.3.3 6-hydroxynicotinate dehydrogenase
- 1.17.4.1 ribonucleoside-diphosphate reductase
- 1.17.4.2 ribonucleoside-triphosphate reductase
- 1.17.4.3 4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase
- 1.17.5.1 phenylacetyl-CoA dehydrogenase
- 1.17.7.1 (E)-4-hydroxy-3-methylbut-2-enyl-diphosphate synthase
- 1.17.99.1 4-cresol dehydrogenase (hydroxylating)
- 1.17.99.2 ethylbenzene hydroxylase
- 1.17.99.3 3alpha,7alpha,12alpha-trihydroxy-5beta-cholestanyl-CoA 24-hydroxylase
- 1.17.99.4 uracil/thymine dehydrogenase
- 1.17.99.5 bile-acid 7alpha-dehydroxylase
- 1.18.1.1 rubredoxin-NAD<sup>+</sup> reductase
- 1.18.1.2 ferredoxin-NADP<sup>+</sup> reductase
- 1.18.1.3 ferredoxin-NAD<sup>+</sup> reductase
- 1.18.1.4 rubredoxin-NAD(P)<sup>+</sup> reductase
- 1.18.3.1 hydrogenase
- 1.18.6.1 nitrogenase
- 1.18.96.1 superoxide reductase
- 1.18.99.1 hydrogenase
- 1.19.6.1 nitrogenase (flavodoxin)
- 1.20.1.1 phosphonate dehydrogenase
- 1.20.4.1 arsenate reductase (glutaredoxin)
- 1.20.4.2 methylarsonate reductase
- 1.20.98.1 arsenate reductase (azurin)
- 1.20.99.1 arsenate reductase (donor)
- 1.21.3.1 isopenicillin-N synthase
- 1.21.3.2 columbamine oxidase
- 1.21.3.3 reticuline oxidase
- 1.21.3.4 sulochrin oxidase [(+)-bisdechlorogeoedin-forming]
- 1.21.3.5 sulochrin oxidase [(-)-bisdechlorogeoedin-forming]
- 1.21.3.6 aureusidin synthase
- 1.21.4.1 D-proline reductase (dithiol)
- 1.21.4.2 glycine reductase
- 1.21.4.3 sarcosine reductase
- 1.21.4.4 betaine reductase
- 1.21.99.1 beta-cyclopiazonate dehydrogenase
- 1.97.1.1 chlorate reductase
- 1.97.1.2 pyrogallol hydroxytransferase
- 1.97.1.3 sulfur reductase
- 1.97.1.4 [formate-C-acetyltransferase]-activating enzyme

- 1.97.1.5 [arsenate reductase \(glutaredoxin\)](#)
- 1.97.1.6 [arsenate reductase \(donor\)](#)
- 1.97.1.7 [methylarsonate reductase](#)
- 1.97.1.8 [tetrachloroethene reductive dehalogenase](#)
- 1.97.1.9 [selenate reductase](#)
- 1.97.1.10 [thyroxine 5'-deiodinase](#)
- 1.97.1.11 [thyroxine 5-deiodinase](#)
- 2.1.1.1 [nicotinamide N-methyltransferase](#)
- 2.1.1.B1 [protein-arginine Nomega-methyltransferase](#)
- 2.1.1.B2 [chloride methyltransferase](#)
- 2.1.1.2 [guanidinoacetate N-methyltransferase](#)
- 2.1.1.B3 [sialate-8-O-methyltransferase](#)
- 2.1.1.3 [thetin-homocysteine S-methyltransferase](#)
- 2.1.1.4 [acetylserotonin O-methyltransferase](#)
- 2.1.1.5 [betaine-homocysteine S-methyltransferase](#)
- 2.1.1.6 [catechol O-methyltransferase](#)
- 2.1.1.7 [nicotinate N-methyltransferase](#)
- 2.1.1.8 [histamine N-methyltransferase](#)
- 2.1.1.9 [thiol S-methyltransferase](#)
- 2.1.1.10 [homocysteine S-methyltransferase](#)
- 2.1.1.11 [magnesium protoporphyrin IX methyltransferase](#)
- 2.1.1.12 [methionine S-methyltransferase](#)
- 2.1.1.13 [methionine synthase](#)
- 2.1.1.14 [5-methyltetrahydropteroylglutamate-homocysteine S-methyltransferase](#)
- 2.1.1.15 [fatty-acid O-methyltransferase](#)
- 2.1.1.16 [methylene-fatty-acyl-phospholipid synthase](#)
- 2.1.1.17 [phosphatidylethanolamine N-methyltransferase](#)
- 2.1.1.18 [polysaccharide O-methyltransferase](#)
- 2.1.1.19 [trimethylsulfonium-tetrahydrofolate N-methyltransferase](#)
- 2.1.1.20 [glycine N-methyltransferase](#)
- 2.1.1.21 [methylamine-glutamate N-methyltransferase](#)
- 2.1.1.22 [carnosine N-methyltransferase](#)
- 2.1.1.23 [protein-arginine N-methyltransferase](#)
- 2.1.1.24 [protein-gamma-glutamate O-methyltransferase](#)
- 2.1.1.25 [phenol O-methyltransferase](#)
- 2.1.1.26 [iodophenol O-methyltransferase](#)
- 2.1.1.27 [tyramine N-methyltransferase](#)
- 2.1.1.28 [phenylethanolamine N-methyltransferase](#)
- 2.1.1.29 [tRNA \(cytosine-5\)-methyltransferase](#)
- 2.1.1.30 [tRNA \(purine-2- or -6\)-methyltransferase](#)
- 2.1.1.31 [tRNA \(guanine-N1\)-methyltransferase](#)
- 2.1.1.32 [tRNA \(guanine-N2\)-methyltransferase](#)
- 2.1.1.33 [tRNA \(guanine-N7\)-methyltransferase](#)
- 2.1.1.34 [tRNA guanosine-2'-O-methyltransferase](#)
- 2.1.1.35 [tRNA \(uracil-5\)-methyltransferase](#)
- 2.1.1.36 [tRNA \(adenine-N1\)-methyltransferase](#)
- 2.1.1.37 [DNA \(cytosine-5\)-methyltransferase](#)
- 2.1.1.38 [O-demethylpuromycin O-methyltransferase](#)
- 2.1.1.39 [inositol 3-methyltransferase](#)
- 2.1.1.40 [inositol 1-methyltransferase](#)
- 2.1.1.41 [sterol 24-C-methyltransferase](#)

- 2.1.1.42 [luteolin O-methyltransferase](#)  
2.1.1.43 [histone-lysine N-methyltransferase](#)  
2.1.1.44 [dimethylhistidine N-methyltransferase](#)  
2.1.1.45 [thymidylate synthase](#)  
2.1.1.46 [isoflavone 4'-O-methyltransferase](#)  
2.1.1.47 [indolepyruvate C-methyltransferase](#)  
2.1.1.48 [rRNA \(adenine-N6\)-methyltransferase](#)  
2.1.1.49 [amine N-methyltransferase](#)  
2.1.1.50 [loganate O-methyltransferase](#)  
2.1.1.51 [rRNA \(guanine-N1\)-methyltransferase](#)  
2.1.1.52 [rRNA \(guanine-N2\)-methyltransferase](#)  
2.1.1.53 [putrescine N-methyltransferase](#)  
2.1.1.54 [deoxycytidylate C-methyltransferase](#)  
2.1.1.55 [tRNA \(adenine-N6\)-methyltransferase](#)  
2.1.1.56 [mRNA \(guanine-N7\)-methyltransferase](#)  
2.1.1.57 [mRNA \(nucleoside-2'-O\)-methyltransferase](#)  
2.1.1.58 [mRNA \(adenosine-2'-O\)-methyltransferase](#)  
2.1.1.59 [\[cytochrome c\]-lysine N-methyltransferase](#)  
2.1.1.60 [calmodulin-lysine N-methyltransferase](#)  
2.1.1.61 [tRNA \(5-methylaminomethyl-2-thiouridylate\)-methyltransferase](#)  
2.1.1.62 [mRNA \(2'-O-methyladenosine-N6\)-methyltransferase](#)  
2.1.1.63 [methylated-DNA-\[protein\]-cysteine S-methyltransferase](#)  
2.1.1.64 [3-demethylubiquinone-9 3-O-methyltransferase](#)  
2.1.1.65 [licodione 2'-O-methyltransferase](#)  
2.1.1.66 [rRNA \(adenosine-2'-O\)-methyltransferase](#)  
2.1.1.67 [thiopurine S-methyltransferase](#)  
2.1.1.68 [caffeate O-methyltransferase](#)  
2.1.1.69 [5-hydroxyfuranocoumarin 5-O-methyltransferase](#)  
2.1.1.70 [8-hydroxyfuranocoumarin 8-O-methyltransferase](#)  
2.1.1.71 [phosphatidyl-N-methylethanolamine N-methyltransferase](#)  
2.1.1.72 [site-specific DNA-methyltransferase \(adenine-specific\)](#)  
2.1.1.73 [site-specific DNA-methyltransferase \(cytosine-specific\)](#)  
2.1.1.74 [methylenetetrahydrofolate-tRNA-\(uracil-5\)-methyltransferase \(FADH2-oxidizing\)](#)  
2.1.1.75 [apigenin 4'-O-methyltransferase](#)  
2.1.1.76 [quercetin 3-O-methyltransferase](#)  
2.1.1.77 [protein-L-isoaspartate\(D-aspartate\) O-methyltransferase](#)  
2.1.1.78 [isoorientin 3'-O-methyltransferase](#)  
2.1.1.79 [cyclopropane-fatty-acyl-phospholipid synthase](#)  
2.1.1.80 [protein-glutamate O-methyltransferase](#)  
2.1.1.81 [nicotine N-methyltransferase](#)  
2.1.1.82 [3-methylquercetin 7-O-methyltransferase](#)  
2.1.1.83 [3,7-dimethylquercetin 4'-O-methyltransferase](#)  
2.1.1.84 [methylquercetagetin 6-O-methyltransferase](#)  
2.1.1.85 [protein-histidine N-methyltransferase](#)  
2.1.1.86 [tetrahydromethanopterin S-methyltransferase](#)  
2.1.1.87 [pyridine N-methyltransferase](#)  
2.1.1.88 [8-hydroxyquercetin 8-O-methyltransferase](#)  
2.1.1.89 [tetrahydrocolumbamine 2-O-methyltransferase](#)  
2.1.1.90 [methanol-5-hydroxybenzimidazolylcobamide Co-methyltransferase](#)  
2.1.1.91 [isobutyraldoxime O-methyltransferase](#)  
2.1.1.92 [bergaptol O-methyltransferase](#)

- 2.1.1.93 [xanthotoxol O-methyltransferase](#)  
2.1.1.94 [tabersonine 16-O-methyltransferase](#)  
2.1.1.95 [tocopherol O-methyltransferase](#)  
2.1.1.96 [thioether S-methyltransferase](#)  
2.1.1.97 [3-hydroxyanthranilate 4-C-methyltransferase](#)  
2.1.1.98 [diphthine synthase](#)  
2.1.1.99 [3-hydroxy-16-methoxy-2,3-dihydrotabersonine N-methyltransferase](#)  
2.1.1.100 [protein-S-isoprenylcysteine O-methyltransferase](#)  
2.1.1.101 [macrocin O-methyltransferase](#)  
2.1.1.102 [demethylmacrocin O-methyltransferase](#)  
2.1.1.103 [phosphoethanolamine N-methyltransferase](#)  
2.1.1.104 [caffeoyle-CoA O-methyltransferase](#)  
2.1.1.105 [N-benzoyl-4-hydroxyanthranilate 4-O-methyltransferase](#)  
2.1.1.106 [tryptophan 2-C-methyltransferase](#)  
2.1.1.107 [uroporphyrinogen-III C-methyltransferase](#)  
2.1.1.108 [6-hydroxymellein O-methyltransferase](#)  
2.1.1.109 [demethylsterigmatocystin 6-O-methyltransferase](#)  
2.1.1.110 [sterigmatocystin 8-O-methyltransferase](#)  
2.1.1.111 [anthranilate N-methyltransferase](#)  
2.1.1.112 [glucuronoxyan 4-O-methyltransferase](#)  
2.1.1.113 [site-specific DNA-methyltransferase \(cytosine-N4-specific\)](#)  
2.1.1.114 [hexaprenyldihydroxybenzoate methyltransferase](#)  
2.1.1.115 [\(RS\)-1-benzyl-1,2,3,4-tetrahydroisoquinoline N-methyltransferase](#)  
2.1.1.116 [3'-hydroxy-N-methyl-\(S\)-coclaurine 4'-O-methyltransferase](#)  
2.1.1.117 [\(S\)-scoulerine 9-O-methyltransferase](#)  
2.1.1.118 [columbamine O-methyltransferase](#)  
2.1.1.119 [10-hydroxydihydrosanguinarine 10-O-methyltransferase](#)  
2.1.1.120 [12-hydroxydihydrochelirubine 12-O-methyltransferase](#)  
2.1.1.121 [6-O-methylnorlaudanosoline 5'-O-methyltransferase](#)  
2.1.1.122 [\(S\)-tetrahydroprotoberberine N-methyltransferase](#)  
2.1.1.123 [\[cytochrome-c1\]-methionine S-methyltransferase](#)  
2.1.1.124 [\[cytochrome c\]-arginine N-methyltransferase](#)  
2.1.1.125 [histone-arginine N-methyltransferase](#)  
2.1.1.126 [\[myelin basic protein\]-arginine N-methyltransferase](#)  
2.1.1.127 [\[ribulose-bisphosphate carboxylase\]-lysine N-methyltransferase](#)  
2.1.1.128 [\(RS\)-norcoclaurine 6-O-methyltransferase](#)  
2.1.1.129 [inositol 4-methyltransferase](#)  
2.1.1.130 [Precorrin-2 C20-methyltransferase](#)  
2.1.1.131 [Precorrin-3B C17-methyltransferase](#)  
2.1.1.132 [Precorrin-6Y C5,15-methyltransferase \(decarboxylating\)](#)  
2.1.1.133 [Precorrin-4 C11-methyltransferase](#)  
2.1.1.134 [myo-inositol 6-O-methyltransferase](#)  
2.1.1.135 [\[methionine synthase\]-cobalamin methyltransferase \(cob\(II\)alamin reducing\)](#)  
2.1.1.136 [chlorophenol O-methyltransferase](#)  
2.1.1.137 [arsenite methyltransferase](#)  
2.1.1.138 [methylarsonite methyltransferase](#)  
2.1.1.139 [3'-demethylstaurosporine O-methyltransferase](#)  
2.1.1.140 [\(S\)-coclaurine-N-methyltransferase](#)  
2.1.1.141 [jasmonate O-methyltransferase](#)  
2.1.1.142 [cycloartenol 24-C-methyltransferase](#)  
2.1.1.143 [24-methylenestrol C-methyltransferase](#)

- 2.1.1.144 [trans-aconitate 2-methyltransferase](#)
- 2.1.1.145 [trans-aconitate 3-methyltransferase](#)
- 2.1.1.146 [\(iso\)eugenol O-methyltransferase](#)
- 2.1.1.147 [corydaline synthase](#)
- 2.1.1.148 [thymidylate synthase \(FAD\)](#)
- 2.1.1.149 [myricetin O-methyltransferase](#)
- 2.1.1.150 [isoflavone 7-O-methyltransferase](#)
- 2.1.1.151 [cobalt-factor II C20-methyltransferase](#)
- 2.1.1.152 [precorrin-6A synthase \(deacetylating\)](#)
- 2.1.1.153 [vitexin 2"-O-rhamnoside 7-O-methyltransferase](#)
- 2.1.1.154 [isoliquiritigenin 2'-O-methyltransferase](#)
- 2.1.1.155 [kaempferol 4'-O-methyltransferase](#)
- 2.1.1.156 [glycine/sarcosine N-methyltransferase](#)
- 2.1.1.157 [sarcosine/dimethylglycine N-methyltransferase](#)
- 2.1.1.158 [7-methylxanthosine synthase](#)
- 2.1.1.159 [theobromine synthase](#)
- 2.1.1.160 [caffeine synthase](#)
- 2.1.1.161 [dimethylglycine N-methyltransferase](#)
- 2.1.1.162 [glycine/sarcosine/dimethylglycine N-methyltransferase](#)
- 2.1.2.1 [glycine hydroxymethyltransferase](#)
- 2.1.2.2 [phosphoribosylglycinamide formyltransferase](#)
- 2.1.2.3 [phosphoribosylaminoimidazolecarboxamide formyltransferase](#)
- 2.1.2.4 [glycine formimidoyltransferase](#)
- 2.1.2.5 [glutamate formimidoyltransferase](#)
- 2.1.2.6 [glutamate formyltransferase](#)
- 2.1.2.7 [D-alanine 2-hydroxymethyltransferase](#)
- 2.1.2.8 [deoxycytidylate 5-hydroxymethyltransferase](#)
- 2.1.2.9 [methionyl-tRNA formyltransferase](#)
- 2.1.2.10 [aminomethyltransferase](#)
- 2.1.2.11 [3-methyl-2-oxobutanoate hydroxymethyltransferase](#)
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- 2.1.3.2 [aspartate carbamoyltransferase](#)
- 2.1.3.3 [ornithine carbamoyltransferase](#)
- 2.1.3.4 [malonyl-CoA carboxyltransferase](#)
- 2.1.3.5 [oxamate carbamoyltransferase](#)
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- 2.1.3.7 [3-hydroxymethylcephem carbamoyltransferase](#)
- 2.1.3.8 [lysine carbamoyltransferase](#)
- 2.1.3.9 [N-acetylornithine carbamoyltransferase](#)
- 2.1.3.10 [malonyl-S-ACP:biotin-protein carboxyltransferase](#)
- 2.1.3.11 [N-succinylornithine carbamoyltransferase](#)
- 2.1.4.1 [glycine amidinotransferase](#)
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- 2.2.1.2 [transaldolase](#)
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- 2.2.1.8 [fluorothreonine transaldolase](#)

- 2.2.1.9 [2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene-1-carboxylic-acid synthase](#)  
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2.3.1.2 [imidazole N-acetyltransferase](#)  
2.3.1.B2 [type I polyhydroxybutyrate synthase](#)  
2.3.1.3 [glucosamine N-acetyltransferase](#)  
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2.3.1.4 [glucosamine-phosphate N-acetyltransferase](#)  
2.3.1.B4 [type III polyhydroxybutyrate synthase](#)  
2.3.1.5 [arylamine N-acetyltransferase](#)  
2.3.1.B5 [unclassified polyhydroxybutyrate synthase](#)  
2.3.1.6 [choline O-acetyltransferase](#)  
2.3.1.7 [carnitine O-acetyltransferase](#)  
2.3.1.8 [phosphate acetyltransferase](#)  
2.3.1.9 [acetyl-CoA C-acetyltransferase](#)  
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2.3.1.11 [thioethanolamine S-acetyltransferase](#)  
2.3.1.12 [dihydrolipoyllysine-residue acetyltransferase](#)  
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2.3.1.35 [glutamate N-acetyltransferase](#)  
2.3.1.36 [D-amino-acid N-acetyltransferase](#)  
2.3.1.37 [5-aminolevulinate synthase](#)  
2.3.1.38 [\[acyl-carrier-protein\] S-acetyltransferase](#)  
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2.3.1.43 [phosphatidylcholine-sterol O-acyltransferase](#)  
2.3.1.44 [N-acetylneuraminate 4-O-acetyltransferase](#)  
2.3.1.45 [N-acetylneuraminate 7-O\(or 9-O\)-acetyltransferase](#)

- 2.3.1.46 [homoserine O-succinyltransferase](#)
- 2.3.1.47 [8-amino-7-oxononanoate synthase](#)
- 2.3.1.48 [histone acetyltransferase](#)
- 2.3.1.49 [deacetyl-\[citrate-\(pro-3S\)-lyase\] S-acetyltransferase](#)
- 2.3.1.50 [serine C-palmitoyltransferase](#)
- 2.3.1.51 [1-acylglycerol-3-phosphate O-acyltransferase](#)
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- 2.3.1.53 [phenylalanine N-acetyltransferase](#)
- 2.3.1.54 [formate C-acetyltransferase](#)
- 2.3.1.55 [kanamycin 6'-N-acetyltransferase](#)
- 2.3.1.56 [aromatic-hydroxylamine O-acetyltransferase](#)
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- 2.3.1.59 [gentamicin 2'-N-acetyltransferase](#)
- 2.3.1.60 [gentamicin 3'-N-acetyltransferase](#)
- 2.3.1.61 [dihydrolipoyllysine-residue succinyltransferase](#)
- 2.3.1.62 [2-acylglycerophosphocholine O-acyltransferase](#)
- 2.3.1.63 [1-alkylglycerophosphocholine O-acyltransferase](#)
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- 2.3.1.65 [bile acid-CoA:amino acid N-acyltransferase](#)
- 2.3.1.66 [leucine N-acetyltransferase](#)
- 2.3.1.67 [1-alkylglycerophosphocholine O-acetyltransferase](#)
- 2.3.1.68 [glutamine N-acyltransferase](#)
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- 2.3.1.71 [glycine N-benzoyltransferase](#)
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- 2.3.1.73 [diacylglycerol-sterol O-acyltransferase](#)
- 2.3.1.74 [naringenin-chalcone synthase](#)
- 2.3.1.75 [long-chain-alcohol O-fatty-acyltransferase](#)
- 2.3.1.76 [retinol O-fatty-acyltransferase](#)
- 2.3.1.77 [triacylglycerol-sterol O-acyltransferase](#)
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- 2.3.1.83 [phosphatidylcholine-dolichol O-acyltransferase](#)
- 2.3.1.84 [alcohol O-acetyltransferase](#)
- 2.3.1.85 [fatty-acid synthase](#)
- 2.3.1.86 [fatty-acyl-CoA synthase](#)
- 2.3.1.87 [aralkylamine N-acetyltransferase](#)
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- 2.3.1.89 [tetrahydrodipicolinate N-acetyltransferase](#)
- 2.3.1.90 [beta-glucogallin O-galloyltransferase](#)
- 2.3.1.91 [sinapoylglucose-choline O-sinapoyltransferase](#)
- 2.3.1.92 [sinapoylglucose-malate O-sinapoyltransferase](#)
- 2.3.1.93 [13-hydroxylupinine O-tigloyltransferase](#)
- 2.3.1.94 [6-deoxyerythronolide-B synthase](#)
- 2.3.1.95 [trihydroxystilbene synthase](#)
- 2.3.1.96 [glycoprotein N-palmitoyltransferase](#)

- 2.3.1.97 [glycylpeptide N-tetradecanoyltransferase](#)  
2.3.1.98 [chlorogenate-glucarate O-hydroxycinnamoyltransferase](#)  
2.3.1.99 [quinate O-hydroxycinnamoyltransferase](#)  
2.3.1.100 [\[myelin-proteolipid\] O-palmitoyltransferase](#)  
2.3.1.101 [formylmethanofuran-tetrahydromethanopterin N-formyltransferase](#)  
2.3.1.102 [N6-hydroxylysine O-acetyltransferase](#)  
2.3.1.103 [sinapoylglucose-sinapoylglucose O-sinapoyltransferase](#)  
2.3.1.104 [1-alkenylglycerophosphocholine O-acyltransferase](#)  
2.3.1.105 [alkylglycerophosphate 2-O-acetyltransferase](#)  
2.3.1.106 [tartronate O-hydroxycinnamoyltransferase](#)  
2.3.1.107 [deacetylvinidine O-acetyltransferase](#)  
2.3.1.108 [alpha-tubulin N-acetyltransferase](#)  
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2.3.1.111 [mycocerosate synthase](#)  
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2.3.1.114 [3,4-dichloroaniline N-malonyltransferase](#)  
2.3.1.115 [isoflavone-7-O-beta-glucoside 6"-O-malonyltransferase](#)  
2.3.1.116 [flavonol-3-O-beta-glucoside O-malonyltransferase](#)  
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2.3.1.118 [N-hydroxyarylamine O-acetyltransferase](#)  
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2.3.1.120 [6'-deoxychalcone synthase](#)  
2.3.1.121 [1-alkenylglycerophosphoethanolamine O-acyltransferase](#)  
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2.3.1.125 [1-alkyl-2-acetylglycerol O-acyltransferase](#)  
2.3.1.126 [isocitrate O-dihydroxycinnamoyltransferase](#)  
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2.3.1.128 [ribosomal-protein-alanine N-acetyltransferase](#)  
2.3.1.129 [acyl-\[acyl-carrier-protein\]-UDP-N-acetylglucosamine O-acyltransferase](#)  
2.3.1.130 [galactarate O-hydroxycinnamoyltransferase](#)  
2.3.1.131 [glucarate O-hydroxycinnamoyltransferase](#)  
2.3.1.132 [glucarolactone O-hydroxycinnamoyltransferase](#)  
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2.3.1.134 [galactolipid O-acyltransferase](#)  
2.3.1.135 [phosphatidylcholine-retinol O-acyltransferase](#)  
2.3.1.136 [polysialic-acid O-acetyltransferase](#)  
2.3.1.137 [carnitine O-octanoyltransferase](#)  
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2.3.1.139 [ecdysone O-acyltransferase](#)  
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2.3.1.142 [glycoprotein O-fatty-acetyltransferase](#)  
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2.3.1.144 [anthranilate N-benzoyltransferase](#)  
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- 2.3.1.148 [Glycerophospholipid acyltransferase \(CoA-dependent\)](#)  
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2.3.1.151 [Benzophenone synthase](#)  
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2.3.1.153 [Anthocyanin 5-aromatic acyltransferase](#)  
2.3.1.154 [propionyl-CoA C2-trimethyltridecanoyltransferase](#)  
2.3.1.155 [acetyl-CoA C-myristoyltransferase](#)  
2.3.1.156 [phloroisovalerophenone synthase](#)  
2.3.1.157 [glucosamine-1-phosphate N-acetyltransferase](#)  
2.3.1.158 [phospholipid:diacylglycerol acyltransferase](#)  
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2.3.1.160 [vinorine synthase](#)  
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2.3.1.162 [taxadien-5alpha-ol O-acetyltransferase](#)  
2.3.1.163 [10-hydroxytaxane O-acetyltransferase](#)  
2.3.1.164 [isopenicillin-N N-acyltransferase](#)  
2.3.1.165 [6-methylsalicylic-acid synthase](#)  
2.3.1.166 [2alpha-hydroxytaxane 2-O-benzoyltransferase](#)  
2.3.1.167 [10-deacetylbaaccatin III 10-O-acetyltransferase](#)  
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2.3.1.169 [CO-methylating acetyl-CoA synthase](#)  
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2.3.1.171 [anthocyanin 6"-O-malonyltransferase](#)  
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2.3.1.173 [flavonol-3-O-triglucoside O-coumaroyltransferase](#)  
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2.3.1.175 [deacetylcephalosporin-C acetyltransferase](#)  
2.3.1.176 [propanoyl-CoA C-acyltransferase](#)  
2.3.1.177 [biphenyl synthase](#)  
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2.3.1.179 [beta-ketoacyl-acyl-carrier-protein synthase II](#)  
2.3.1.180 [beta-ketoacyl-acyl-carrier-protein synthase III](#)  
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2.3.1.182 [\(R\)-citramalate synthase](#)  
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2.3.1.184 [acyl-homoserine-lactone synthase](#)  
2.3.1.185 [tropine acyltransferase](#)  
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2.3.1.187 [acetyl-S-ACP:malonate ACP transferase](#)  
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2.3.2.8 [arginyltransferase](#)  
2.3.2.9 [agaridine gamma-glutamyltransferase](#)  
2.3.2.10 [UDP-N-acetylmuramoylpentapeptide-lysine N6-alanyltransferase](#)  
2.3.2.11 [alanylphosphatidylglycerol synthase](#)

- 2.3.2.12 [peptidyltransferase](#)
- 2.3.2.13 [protein-glutamine gamma-glutamyltransferase](#)
- 2.3.2.14 [D-alanine gamma-glutamyltransferase](#)
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- 2.3.3.1 [citrate \(Si\)-synthase](#)
- 2.3.3.2 [decylcitrate synthase](#)
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- 2.3.3.5 [2-methylcitrate synthase](#)
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- 2.3.3.14 [homocitrate synthase](#)
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- 2.4.1.6 [maltose 3-glycosyltransferase](#)
- 2.4.1.7 [sucrose phosphorylase](#)
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- 2.4.1.12 [cellulose synthase \(UDP-forming\)](#)
- 2.4.1.13 [sucrose synthase](#)
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- 2.4.1.16 [chitin synthase](#)
- 2.4.1.17 [glucuronosyltransferase](#)
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- 2.4.1.19 [cyclomaltodextrin glucanotransferase](#)
- 2.4.1.20 [cellobiose phosphorylase](#)
- 2.4.1.21 [starch synthase](#)
- 2.4.1.22 [lactose synthase](#)
- 2.4.1.23 [sphingosine beta-galactosyltransferase](#)
- 2.4.1.24 [1,4-alpha-glucan 6-alpha-glucosyltransferase](#)
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- 2.4.1.26 [DNA alpha-glucosyltransferase](#)
- 2.4.1.27 [DNA beta-glucosyltransferase](#)
- 2.4.1.28 [glucosyl-DNA beta-glucosyltransferase](#)
- 2.4.1.29 [cellulose synthase \(GDP-forming\)](#)
- 2.4.1.30 [1,3-beta-oligoglucan phosphorylase](#)
- 2.4.1.31 [laminaribiose phosphorylase](#)

- 2.4.1.32 [glucomannan 4-beta-mannosyltransferase](#)
- 2.4.1.33 [alginate synthase](#)
- 2.4.1.34 [1,3-beta-glucan synthase](#)
- 2.4.1.35 [phenol beta-glucosyltransferase](#)
- 2.4.1.36 [alpha,alpha-trehalose-phosphate synthase \(GDP-forming\)](#)
- 2.4.1.37 [fucosylgalactoside 3-alpha-galactosyltransferase](#)
- 2.4.1.38 [beta-N-acetylglucosaminylglycopeptide beta-1,4-galactosyltransferase](#)
- 2.4.1.39 [steroid N-acetylglucosaminyltransferase](#)
- 2.4.1.40 [glycoprotein-fucosylgalactoside alpha-N-acetylgalactosaminyltransferase](#)
- 2.4.1.41 [polypeptide N-acetylgalactosaminyltransferase](#)
- 2.4.1.42 [UDPglucuronate-estriol 17beta-D-glucuronosyltransferase](#)
- 2.4.1.43 [polygalacturonate 4-alpha-galacturonosyltransferase](#)
- 2.4.1.44 [lipopolysaccharide 3-alpha-galactosyltransferase](#)
- 2.4.1.45 [2-hydroxyacylsphingosine 1-beta-galactosyltransferase](#)
- 2.4.1.46 [monogalactosyldiacylglycerol synthase](#)
- 2.4.1.47 [N-acylsphingosine galactosyltransferase](#)
- 2.4.1.48 [heteroglycan alpha-mannosyltransferase](#)
- 2.4.1.49 [celloextrin phosphorylase](#)
- 2.4.1.50 [procollagen galactosyltransferase](#)
- 2.4.1.51 [UDP-N-acetylglucosamine-glycoprotein N-acetylglucosaminyltransferase](#)
- 2.4.1.52 [poly\(glycerol-phosphate\) alpha-glucosyltransferase](#)
- 2.4.1.53 [poly\(ribitol-phosphate\) beta-glucosyltransferase](#)
- 2.4.1.54 [undecaprenyl-phosphate mannosyltransferase](#)
- 2.4.1.55 [teichoic-acid synthase](#)
- 2.4.1.56 [lipopolysaccharide N-acetylglucosaminyltransferase](#)
- 2.4.1.57 [phosphatidylinositol alpha-mannosyltransferase](#)
- 2.4.1.58 [lipopolysaccharide glucosyltransferase I](#)
- 2.4.1.59 [UDPglucuronate-estradiol glucuronosyltransferase](#)
- 2.4.1.60 [abequosyltransferase](#)
- 2.4.1.61 [UDPglucuronate-estriol 16alpha-glucuronosyltransferase](#)
- 2.4.1.62 [ganglioside galactosyltransferase](#)
- 2.4.1.63 [linamarin synthase](#)
- 2.4.1.64 [alpha,alpha-trehalose phosphorylase](#)
- 2.4.1.65 [3-galactosyl-N-acetylglucosaminide 4-alpha-L-fucosyltransferase](#)
- 2.4.1.66 [procollagen glucosyltransferase](#)
- 2.4.1.67 [galactinol-raffinose galactosyltransferase](#)
- 2.4.1.68 [glycoprotein 6-alpha-L-fucosyltransferase](#)
- 2.4.1.69 [galactoside 2-alpha-L-fucosyltransferase](#)
- 2.4.1.70 [poly\(ribitol-phosphate\) N-acetylglucosaminyltransferase](#)
- 2.4.1.71 [arylamine glucosyltransferase](#)
- 2.4.1.72 [1,4-beta-xylan synthase](#)
- 2.4.1.73 [lipopolysaccharide glucosyltransferase II](#)
- 2.4.1.74 [glycosaminoglycan galactosyltransferase](#)
- 2.4.1.75 [UDP-galacturonosyltransferase](#)
- 2.4.1.76 [UDPglucuronate-bilirubin glucuronosyltransferase](#)
- 2.4.1.77 [UDPglucuronate-bilirubin-glucuronoside glucuronosyltransferase](#)
- 2.4.1.78 [phosphopolyprenol glucosyltransferase](#)
- 2.4.1.79 [globotriaosylceramide 3-beta-N-acetylgalactosaminyltransferase](#)
- 2.4.1.80 [ceramide glucosyltransferase](#)
- 2.4.1.81 [flavone 7-O-beta-glucosyltransferase](#)
- 2.4.1.82 [galactinol-sucrose galactosyltransferase](#)

- 2.4.1.83 [dolichyl-phosphate beta-D-mannosyltransferase](#)  
2.4.1.84 [UDPglucuronate-1,2-diacylglycerol glucuronosyltransferase](#)  
2.4.1.85 [cyanohydrin beta-glucosyltransferase](#)  
2.4.1.86 [glucosaminylgalactosylglucosylceramide beta-galactosyltransferase](#)  
2.4.1.87 [N-acetyllactosaminide 3-alpha-galactosyltransferase](#)  
2.4.1.88 [globoside alpha-N-acetylgalactosaminyltransferase](#)  
2.4.1.89 [galactosylglucosaminylgalactosylglucosylceramide alpha-L-fucosyltransferase](#)  
2.4.1.90 [N-acetyllactosamine synthase](#)  
2.4.1.91 [flavonol 3-O-glucosyltransferase](#)  
2.4.1.92 [\(N-acetylneuraminy\)-galactosylglucosylceramide N-acetylgalactosaminyltransferase](#)  
2.4.1.93 [inulin fructotransferase \(depolymerizing, difructofuranose-1,2':2,3'-dianhydride-forming\)](#)  
2.4.1.94 [protein N-acetylglucosaminyltransferase](#)  
2.4.1.95 [bilirubin-glucuronoside glucuronosyltransferase](#)  
2.4.1.96 [sn-glycerol-3-phosphate 1-galactosyltransferase](#)  
2.4.1.97 [1,3-beta-D-glucan phosphorylase](#)  
2.4.1.98 [UDPgalactose-N-acetylglucosamine beta-D-qalactosyl-transferase](#)  
2.4.1.99 [sucrose:sucrose fructosyltransferase](#)  
2.4.1.100 [2,1-fructan:2,1-fructan 1-fructosyltransferase](#)  
2.4.1.101 [alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase](#)  
2.4.1.102 [beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase](#)  
2.4.1.103 [alizarin 2-beta-glucosyltransferase](#)  
2.4.1.104 [o-dihydroxycoumarin 7-O-glucosyltransferase](#)  
2.4.1.105 [vitexin beta-glucosyltransferase](#)  
2.4.1.106 [isovitexin beta-glucosyltransferase](#)  
2.4.1.107 [UDPglucuronate-testosterone glucuronosyltransferase](#)  
2.4.1.108 [UDPglucuronate-phenol glucuronosyltransferase](#)  
2.4.1.109 [dolichyl-phosphate-mannose-protein mannosyltransferase](#)  
2.4.1.110 [tRNA-queuosine beta-mannosyltransferase](#)  
2.4.1.111 [coniferyl-alcohol glucosyltransferase](#)  
2.4.1.112 [alpha-1,4-glucan-protein synthase \(UDP-forming\)](#)  
2.4.1.113 [alpha-1,4-glucan-protein synthase \(ADP-forming\)](#)  
2.4.1.114 [2-coumarate O-beta-glucosyltransferase](#)  
2.4.1.115 [anthocyanidin 3-O-glucosyltransferase](#)  
2.4.1.116 [cyanidin 3-O-rutinoside 5-O-glucosyltransferase](#)  
2.4.1.117 [dolichyl-phosphate beta-glucosyltransferase](#)  
2.4.1.118 [cytokinin 7-beta-glucosyltransferase](#)  
2.4.1.119 [dolichyl-diphosphooligosaccharide-protein glycotransferase](#)  
2.4.1.120 [sinapate 1-glucosyltransferase](#)  
2.4.1.121 [indole-3-acetate beta-glucosyltransferase](#)  
2.4.1.122 [glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase](#)  
2.4.1.123 [inositol 3-alpha-galactosyltransferase](#)  
2.4.1.124 [N-acetyllactosamine 3-alpha-galactosyltransferase](#)  
2.4.1.125 [sucrose-1,6-alpha-glucan 3\(6\)-alpha-glucosyltransferase](#)  
2.4.1.126 [hydroxycinnamate 4-beta-glucosyltransferase](#)  
2.4.1.127 [monoterpenol beta-glucosyltransferase](#)  
2.4.1.128 [scopoletin glucosyltransferase](#)  
2.4.1.129 [peptidoglycan glycosyltransferase](#)  
2.4.1.130 [dolichyl-phosphate-mannose-glycolipid alpha-mannosyltransferase](#)  
2.4.1.131 [glycolipid 2-alpha-mannosyltransferase](#)

- 2.4.1.132 [glycolipid 3-alpha-mannosyltransferase](#)  
2.4.1.133 [xylosylprotein 4-beta-galactosyltransferase](#)  
2.4.1.134 [galactosylxylosylprotein 3-beta-galactosyltransferase](#)  
2.4.1.135 [galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase](#)  
2.4.1.136 [gallate 1-beta-glucosyltransferase](#)  
2.4.1.137 [sn-glycerol-3-phosphate 2-alpha-galactosyltransferase](#)  
2.4.1.138 [mannotetraose 2-alpha-N-acetylglucosaminyltransferase](#)  
2.4.1.139 [maltose synthase](#)  
2.4.1.140 [alternansucrase](#)  
2.4.1.141 [N-acetylglucosaminyldiphosphodolichol N-acetylglucosaminyltransferase](#)  
2.4.1.142 [chitobiosyldiphosphodolichol beta-mannosyltransferase](#)  
2.4.1.143 [alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase](#)  
2.4.1.144 [beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase](#)  
2.4.1.145 [alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase](#)  
2.4.1.146 [beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,3-N-acetylglucosaminyltransferase](#)  
2.4.1.147 [acetylgalactosaminyl-O-glycosyl-glycoprotein beta-1,3-N-acetylglucosaminyltransferase](#)  
2.4.1.148 [acetylgalactosaminyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase](#)  
2.4.1.149 [N-acetyllactosaminide beta-1,3-N-acetylglucosaminyltransferase](#)  
2.4.1.150 [N-acetyllactosaminide beta-1,6-N-acetylglucosaminyl-transferase](#)  
2.4.1.151 [N-acetyllactosaminide alpha-1,3-galactosyltransferase](#)  
2.4.1.152 [4-galactosyl-N-acetylglucosaminide 3-alpha-L-fucosyltransferase](#)  
2.4.1.153 [dolichyl-phosphate alpha-N-acetylglucosaminyltransferase](#)  
2.4.1.154 [globotriosylceramide beta-1,6-N-acetylgalactosaminyl-transferase](#)  
2.4.1.155 [alpha-1,6-mannosyl-glycoprotein 6-beta-N-acetylglucosaminyltransferase](#)  
2.4.1.156 [indolylacetyl-myo-inositol galactosyltransferase](#)  
2.4.1.157 [1,2-diacylglycerol 3-glucosyltransferase](#)  
2.4.1.158 [13-hydroxydocosanoate 13-beta-glucosyltransferase](#)  
2.4.1.159 [flavonol-3-O-glucoside L-rhamnosyltransferase](#)  
2.4.1.160 [pyridoxine 5'-O-beta-D-glucosyltransferase](#)  
2.4.1.161 [oligosaccharide 4-alpha-D-glucosyltransferase](#)  
2.4.1.162 [aldose beta-D-fructosyltransferase](#)  
2.4.1.163 [beta-galactosyl-N-acetylglucosaminylgalactosylglucosyl-ceramide beta-1,3-N-acetylglucosaminyltransferase](#)  
2.4.1.164 [galactosyl-N-acetylglucosaminylgalactosylglucosyl-ceramide beta-1,6-N-acetylglucosaminyltransferase](#)  
2.4.1.165 [N-acetylneuraminylgalactosylglucosylceramide beta-1,4-N-acetylgalactosaminyltransferase](#)  
2.4.1.166 [raffinose-raffinose alpha-galactosyltransferase](#)  
2.4.1.167 [sucrose 6F-alpha-galactosyltransferase](#)  
2.4.1.168 [xyloglucan 4-glucosyltransferase](#)  
2.4.1.169 [xyloglucan 6-xylosyltransferase](#)  
2.4.1.170 [isoflavone 7-O-glucosyltransferase](#)  
2.4.1.171 [methyl-ONN-azoxymethanol beta-D-glucosyltransferase](#)  
2.4.1.172 [salicyl-alcohol beta-D-glucosyltransferase](#)  
2.4.1.173 [sterol 3beta-glucosyltransferase](#)  
2.4.1.174 [glucuronylgalactosylproteoglycan 4-beta-N-acetylgalactosaminyltransferase](#)  
2.4.1.175 [glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase](#)

- 2.4.1.176 [gibberellin beta-D-glucosyltransferase](#)  
2.4.1.177 [cinnamate beta-D-glucosyltransferase](#)  
2.4.1.178 [hydroxymandelonitrile glucosyltransferase](#)  
2.4.1.179 [lactosylceramide beta-1,3-galactosyltransferase](#)  
2.4.1.180 [lipopolysaccharide N-acetylmannosaminouronosyltransferase](#)  
2.4.1.181 [hydroxyanthraquinone glucosyltransferase](#)  
2.4.1.182 [lipid-A-disaccharide synthase](#)  
2.4.1.183 [alpha-1,3-glucan synthase](#)  
2.4.1.184 [galactolipid galactosyltransferase](#)  
2.4.1.185 [flavanone 7-O-beta-glucosyltransferase](#)  
2.4.1.186 [glycogenin glucosyltransferase](#)  
2.4.1.187 [N-acetylglucosaminyldiphosphoundecaprenol N-acetyl-beta-D-mannosaminyltransferase](#)  
2.4.1.188 [N-acetylglucosaminyldiphosphoundecaprenol glucosyltransferase](#)  
2.4.1.189 [luteolin 7-O-glucuronosyltransferase](#)  
2.4.1.190 [luteolin-7-O-glucuronide 2"-O-glucuronosyltransferase](#)  
2.4.1.191 [luteolin-7-O-diglucuronide 4'-O-glucuronosyltransferase](#)  
2.4.1.192 [nuatigenin 3beta-glucosyltransferase](#)  
2.4.1.193 [sarsapogenin 3beta-glucosyltransferase](#)  
2.4.1.194 [4-hydroxybenzoate 4-O-beta-D-glucosyltransferase](#)  
2.4.1.195 [N-hydroxythioamide S-beta-glucosyltransferase](#)  
2.4.1.196 [nicotinate glucosyltransferase](#)  
2.4.1.197 [high-mannose-oligosaccharide beta-1,4-N-acetylglucosaminyltransferase](#)  
2.4.1.198 [phosphatidylinositol N-acetylglucosaminyltransferase](#)  
2.4.1.199 [beta-mannosylphosphodecaprenol-mannooligosaccharide 6-mannosyltransferase](#)  
2.4.1.200 [inulin fructotransferase \(depolymerizing, difructofuranose-1,2':2',1-dianhydride-forming\)](#)  
2.4.1.201 [alpha-1,6-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase](#)  
2.4.1.202 [2,4-dihydroxy-7-methoxy-2H-1,4-benzoxazin-3\(4H\)-one 2-D-glucosyltransferase](#)  
2.4.1.203 [trans-zeatin O-beta-D-glucosyltransferase](#)  
2.4.1.204 [zeatin O-beta-D-xylosyltransferase](#)  
2.4.1.205 [galactogen 6beta-galactosyltransferase](#)  
2.4.1.206 [lactosylceramide 1,3-N-acetyl-beta-D-glucosaminyltransferase](#)  
2.4.1.207 [xyloglucan:xyloglucosyl transferase](#)  
2.4.1.208 [diglucosyl diacylglycerol synthase](#)  
2.4.1.209 [cis-p-coumarate glucosyltransferase](#)  
2.4.1.210 [limonoid glucosyltransferase](#)  
2.4.1.211 [1,3-beta-galactosyl-N-acetylhexosamine phosphorylase](#)  
2.4.1.212 [hyaluronan synthase](#)  
2.4.1.213 [glucosylglycerol-phosphate synthase](#)  
2.4.1.214 [glycoprotein 3-alpha-L-fucosyltransferase](#)  
2.4.1.215 [cis-zeatin O-beta-D-glucosyltransferase](#)  
2.4.1.216 [trehalose 6-phosphate phosphorylase](#)  
2.4.1.217 [mannosyl-3-phosphoglycerate synthase](#)  
2.4.1.218 [hydroquinone glucosyltransferase](#)  
2.4.1.219 [vomilenine glucosyltransferase](#)  
2.4.1.220 [indoxyl-UDPG glucosyltransferase](#)  
2.4.1.221 [peptide-O-fucosyltransferase](#)  
2.4.1.222 [O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase](#)  
2.4.1.223 [glucuronyl-galactosyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase](#)  
2.4.1.224 [glucuronosyl-N-acetylglucosaminyl-proteoglycan 4-alpha-N-](#)

[acetylglucosaminyltransferase](#)

2.4.1.225 [N-acetylglucosaminyl-proteoglycan 4-beta-glucuronosyltransferase](#)

2.4.1.226 [N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase](#)

2.4.1.227 [undecaprenyldiphospho-muramoylpentapeptide beta-N-acetylglucosaminyltransferase](#)

2.4.1.228 [lactosylceramide 4-alpha-galactosyltransferase](#)

2.4.1.229 [\[Skp1-protein\]-hydroxyproline N-acetylglucosaminyltransferase](#)

2.4.1.230 [kojibiose phosphorylase](#)

2.4.1.231 [alpha,alpha-trehalose phosphorylase \(configuration-retaining\)](#)

2.4.1.232 [initiation-specific alpha-1,6-mannosyltransferase](#)

2.4.1.233 [anthocyanidin 3-O-glucosyltransferase](#)

2.4.1.234 [kaempferol 3-O-galactosyltransferase](#)

2.4.1.235 [cyanidin 3-O-rutinoside 5-O-glucosyltransferase](#)

2.4.1.236 [flavanone 7-O-glucoside 2"-O-beta-L-rhamnosyltransferase](#)

2.4.1.237 [flavonol 7-O-beta-glucosyltransferase](#)

2.4.1.238 [anthocyanin 3'-O-beta-glucosyltransferase](#)

2.4.1.239 [flavonol-3-O-glucoside glucosyltransferase](#)

2.4.1.240 [flavonol-3-O-glycoside glucosyltransferase](#)

2.4.1.241 [digalactosyldiacylglycerol synthase](#)

2.4.1.242 [NDP-glucose-starch glucosyltransferase](#)

2.4.1.243 [6G-fructosyltransferase](#)

2.4.1.244 [N-acetyl-beta-glucosaminyl-glycoprotein 4-beta-N-acetylgalactosaminyltransferase](#)

2.4.1.245 [alpha,alpha-trehalose synthase](#)

2.4.1.246 [mannosylfructose-phosphate synthase](#)

2.4.2.1 [purine-nucleoside phosphorylase](#)

2.4.2.2 [pyrimidine-nucleoside phosphorylase](#)

2.4.2.3 [uridine phosphorylase](#)

2.4.2.4 [thymidine phosphorylase](#)

2.4.2.5 [nucleoside ribosyltransferase](#)

2.4.2.6 [nucleoside deoxyribosyltransferase](#)

2.4.2.7 [adenine phosphoribosyltransferase](#)

2.4.2.8 [hypoxanthine phosphoribosyltransferase](#)

2.4.2.9 [uracil phosphoribosyltransferase](#)

2.4.2.10 [orotate phosphoribosyltransferase](#)

2.4.2.11 [nicotinate phosphoribosyltransferase](#)

2.4.2.12 [nicotinamide phosphoribosyltransferase](#)

2.4.2.13 [Recommended Name never specified](#)

2.4.2.14 [amidophosphoribosyltransferase](#)

2.4.2.15 [guanosine phosphorylase](#)

2.4.2.16 [urate-ribonucleotide phosphorylase](#)

2.4.2.17 [ATP phosphoribosyltransferase](#)

2.4.2.18 [anthranilate phosphoribosyltransferase](#)

2.4.2.19 [nicotinate-nucleotide diphosphorylase \(carboxylating\)](#)

2.4.2.20 [dioxotetrahydropyrimidine phosphoribosyltransferase](#)

2.4.2.21 [nicotinate-nucleotide-dimethylbenzimidazole phosphoribosyltransferase](#)

2.4.2.22 [xanthine phosphoribosyltransferase](#)

2.4.2.23 [deoxyuridine phosphorylase](#)

2.4.2.24 [1,4-beta-D-xylan synthase](#)

2.4.2.25 [flavone apiosyltransferase](#)

2.4.2.26 [protein xylosyltransferase](#)

2.4.2.27 [dTDP-dihydrostreptose-streptidine-6-phosphate dihydrostreptosyltransferase](#)

- 2.4.2.28 [S-methyl-5'-thioadenosine phosphorylase](#)  
2.4.2.29 [tRNA-guanine transglycosylase](#)  
2.4.2.30 [NAD+ ADP-ribosyltransferase](#)  
2.4.2.31 [NAD+-protein-arginine ADP-ribosyltransferase](#)  
2.4.2.32 [dolichyl-phosphate D-xylosyltransferase](#)  
2.4.2.33 [dolichyl-xylosyl-phosphate-protein xylosyltransferase](#)  
2.4.2.34 [indolylacetylinositol arabinosyltransferase](#)  
2.4.2.35 [flavonol-3-O-glycoside xylosyltransferase](#)  
2.4.2.36 [NAD+-diphthamide ADP-ribosyltransferase](#)  
2.4.2.37 [NAD+-dinitrogen-reductase ADP-D-ribosyltransferase](#)  
2.4.2.38 [glycoprotein 2-beta-D-xylosyltransferase](#)  
2.4.2.39 [xyloglucan 6-xylosyltransferase](#)  
2.4.2.40 [zeatin O-beta-D-xylosyltransferase](#)  
2.4.99.1 [beta-galactoside alpha-2,6-sialyltransferase](#)  
2.4.99.2 [monosialoganglioside sialyltransferase](#)  
2.4.99.3 [alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase](#)  
2.4.99.4 [beta-galactoside alpha-2,3-sialyltransferase](#)  
2.4.99.5 [galactosyldiacylglycerol alpha-2,3-sialyltransferase](#)  
2.4.99.6 [N-acetyllactosaminide alpha-2,3-sialyltransferase](#)  
2.4.99.7 [alpha-N-acetylneuraminyl-2,3-beta-galactosyl-1,3-N-acetylgalactosaminide 6-alpha-sialyltransferase](#)  
2.4.99.8 [alpha-N-acetylneuraminate alpha-2,8-sialyltransferase](#)  
2.4.99.9 [lactosylceramide alpha-2,3-sialyltransferase](#)  
2.4.99.10 [neolactotetraosylceramide alpha-2,3-sialyltransferase](#)  
2.4.99.11 [lactosylceramide alpha-2,6-N-sialyltransferase](#)  
2.5.1.1 [dimethylallyltranstransferase](#)  
2.5.1.B1 [farnesylgeranyltransferase](#)  
2.5.1.B2 [sep-tRNA:Cys-tRNA synthase](#)  
2.5.1.2 [thiamine pyridinylase](#)  
2.5.1.3 [thiamine-phosphate diphosphorylase](#)  
2.5.1.4 [adenosylmethionine cyclotransferase](#)  
2.5.1.B4 [thermospermamine synthase](#)  
2.5.1.B5 [7-dimethylallyltryptophan synthase](#)  
2.5.1.5 [galactose-6-sulfurylase](#)  
2.5.1.B6 [lumazine synthase](#)  
2.5.1.6 [methionine adenosyltransferase](#)  
2.5.1.7 [UDP-N-acetylglucosamine 1-carboxyvinyltransferase](#)  
2.5.1.8 [tRNA isopentenyltransferase](#)  
2.5.1.9 [riboflavin synthase](#)  
2.5.1.10 [geranyltranstransferase](#)  
2.5.1.11 [trans-octaprenyltranstransferase](#)  
2.5.1.12 [glutathione S-alkyltransferase](#)  
2.5.1.13 [glutathione S-aryltransferase](#)  
2.5.1.14 [glutathione S-aralkyltransferase](#)  
2.5.1.15 [dihydropteroate synthase](#)  
2.5.1.16 [spermidine synthase](#)  
2.5.1.17 [cob\(I\)yrinic acid a,c-diamide adenosyltransferase](#)  
2.5.1.18 [glutathione transferase](#)  
2.5.1.19 [3-phosphoshikimate 1-carboxyvinyltransferase](#)  
2.5.1.20 [rubber cis-polypropenylcistransferase](#)  
2.5.1.21 [squalene synthase](#)

- 2.5.1.22 [spermine synthase](#)
- 2.5.1.23 [sym-norspermidine synthase](#)
- 2.5.1.24 [discadenine synthase](#)
- 2.5.1.25 [tRNA-uridine aminocarboxypropyltransferase](#)
- 2.5.1.26 [alkylglycerone-phosphate synthase](#)
- 2.5.1.27 [adenylate dimethylallyltransferase](#)
- 2.5.1.28 [dimethylallylcistransferase](#)
- 2.5.1.29 [farnesyltranstransferase](#)
- 2.5.1.30 [trans-hexaprenyltranstransferase](#)
- 2.5.1.31 [di-trans,poly-cis-decaprenylcistransferase](#)
- 2.5.1.32 [phytoene synthase](#)
- 2.5.1.33 [trans-pentaprenyltranstransferase](#)
- 2.5.1.34 [tryptophan dimethylallyltransferase](#)
- 2.5.1.35 [aspuvinone dimethylallyltransferase](#)
- 2.5.1.36 [trihydroxypterocarpan dimethylallyltransferase](#)
- 2.5.1.37 [leukotriene-C4 synthase](#)
- 2.5.1.38 [isonocardicin synthase](#)
- 2.5.1.39 [4-hydroxybenzoate nonaprenyltransferase](#)
- 2.5.1.40 [aristolochene synthase](#)
- 2.5.1.41 [phosphoglycerol geranylgeranyltransferase](#)
- 2.5.1.42 [geranylgeranylglycerol-phosphate geranylgeranyltransferase](#)
- 2.5.1.43 [nicotianamine synthase](#)
- 2.5.1.44 [homospermidine synthase](#)
- 2.5.1.45 [homospermidine synthase \(spermidine-specific\)](#)
- 2.5.1.46 [deoxyhypusine synthase](#)
- 2.5.1.47 [cysteine synthase](#)
- 2.5.1.48 [cystathionine gamma-synthase](#)
- 2.5.1.49 [O-acetylhomoserine aminocarboxypropyltransferase](#)
- 2.5.1.50 [zeatin 9-aminocarboxyethyltransferase](#)
- 2.5.1.51 [beta-pyrazolylalanine synthase](#)
- 2.5.1.52 [L-mimosine synthase](#)
- 2.5.1.53 [uracilylalanine synthase](#)
- 2.5.1.54 [3-deoxy-7-phosphoheptulonate synthase](#)
- 2.5.1.55 [3-deoxy-8-phosphoctulonate synthase](#)
- 2.5.1.56 [N-acetylneuraminate synthase](#)
- 2.5.1.57 [N-acylneuraminate-9-phosphate synthase](#)
- 2.5.1.58 [protein farnesyltransferase](#)
- 2.5.1.59 [protein geranylgeranyltransferase type I](#)
- 2.5.1.60 [protein geranylgeranyltransferase type II](#)
- 2.5.1.61 [hydroxymethylbilane synthase](#)
- 2.5.1.62 [chlorophyll synthase](#)
- 2.5.1.63 [adenosyl-fluoride synthase](#)
- 2.5.1.64 [2-succinyl-6-hydroxy-2,4-cyclohexadiene-1-carboxylate synthase](#)
- 2.5.1.65 [O-phosphoserine sulfhydrylase](#)
- 2.5.1.66 [N2-\(2-carboxyethyl\)arginine synthase](#)
- 2.5.1.67 [chrysanthemyl diphosphate synthase](#)
- 2.5.1.68 [Z-farnesyl diphosphate synthase](#)
- 2.5.1.69 [lavandulyl diphosphate synthase](#)
- 2.5.1.70 [naringenin 8-dimethylallyltransferase](#)
- 2.5.1.71 [leachianone-G 2"-dimethylallyltransferase](#)
- 2.5.1.72 [quinolinate synthase](#)

- 2.6.1.1 [aspartate transaminase](#)
- 2.6.1.2 [alanine transaminase](#)
- 2.6.1.3 [cysteine transaminase](#)
- 2.6.1.4 [glycine transaminase](#)
- 2.6.1.5 [tyrosine transaminase](#)
- 2.6.1.6 [leucine transaminase](#)
- 2.6.1.7 [kynurenine-oxoglutarate transaminase](#)
- 2.6.1.8 [2,5-diaminovaleate transaminase](#)
- 2.6.1.9 [histidinol-phosphate transaminase](#)
- 2.6.1.10 [D-aspartate transaminase](#)
- 2.6.1.11 [acetylornithine transaminase](#)
- 2.6.1.12 [alanine-oxo-acid transaminase](#)
- 2.6.1.13 [ornithine aminotransferase](#)
- 2.6.1.14 [asparagine-oxo-acid transaminase](#)
- 2.6.1.15 [glutamine-pyruvate transaminase](#)
- 2.6.1.16 [glutamine-fructose-6-phosphate transaminase \(isomerizing\)](#)
- 2.6.1.17 [succinyldiaminopimelate transaminase](#)
- 2.6.1.18 [beta-alanine-pyruvate transaminase](#)
- 2.6.1.19 [4-aminobutyrate transaminase](#)
- 2.6.1.20 [tyrosine-pyruvate transaminase](#)
- 2.6.1.21 [D-amino-acid transaminase](#)
- 2.6.1.22 [\(S\)-3-amino-2-methylpropionate transaminase](#)
- 2.6.1.23 [4-hydroxyglutamate transaminase](#)
- 2.6.1.24 [diiodotyrosine transaminase](#)
- 2.6.1.25 [thyroxine transaminase](#)
- 2.6.1.26 [thyroid-hormone transaminase](#)
- 2.6.1.27 [tryptophan transaminase](#)
- 2.6.1.28 [tryptophan-phenylpyruvate transaminase](#)
- 2.6.1.29 [diamine transaminase](#)
- 2.6.1.30 [pyridoxamine-pyruvate transaminase](#)
- 2.6.1.31 [pyridoxamine-oxaloacetate transaminase](#)
- 2.6.1.32 [valine-3-methyl-2-oxovalerate transaminase](#)
- 2.6.1.33 [dTDP-4-amino-4,6-dideoxy-D-glucose transaminase](#)
- 2.6.1.34 [UDP-2-acetamido-4-amino-2,4,6-trideoxyglucose transaminase](#)
- 2.6.1.35 [glycine-oxaloacetate transaminase](#)
- 2.6.1.36 [L-lysine 6-transaminase](#)
- 2.6.1.37 [2-aminoethylphosphonate-pyruvate transaminase](#)
- 2.6.1.38 [histidine transaminase](#)
- 2.6.1.39 [2-aminoadipate transaminase](#)
- 2.6.1.40 [\(R\)-3-amino-2-methylpropionate-pyruvate transaminase](#)
- 2.6.1.41 [D-methionine-pyruvate transaminase](#)
- 2.6.1.42 [branched-chain-amino-acid transaminase](#)
- 2.6.1.43 [aminolevulinate transaminase](#)
- 2.6.1.44 [alanine-glyoxylate transaminase](#)
- 2.6.1.45 [serine-glyoxylate transaminase](#)
- 2.6.1.46 [diaminobutyrate-pyruvate transaminase](#)
- 2.6.1.47 [alanine-oxomalonate transaminase](#)
- 2.6.1.48 [5-aminovalerate transaminase](#)
- 2.6.1.49 [dihydroxyphenylalanine transaminase](#)
- 2.6.1.50 [glutamine-scyllo-inositol transaminase](#)
- 2.6.1.51 [serine-pyruvate transaminase](#)

- 2.6.1.52 [phosphoserine transaminase](#)
- 2.6.1.53 [glutamate synthase](#)
- 2.6.1.54 [pyridoxamine-phosphate transaminase](#)
- 2.6.1.55 [taurine-2-oxoglutarate transaminase](#)
- 2.6.1.56 [1D-1-guanidino-3-amino-1,3-dideoxy-scyllo-inositol transaminase](#)
- 2.6.1.57 [aromatic-amino-acid transaminase](#)
- 2.6.1.58 [phenylalanine\(histidine\) transaminase](#)
- 2.6.1.59 [dTDP-4-amino-4,6-dideoxygalactose transaminase](#)
- 2.6.1.60 [aromatic-amino-acid-glyoxylate transaminase](#)
- 2.6.1.61 [\(R\)-3-amino-2-methylpropionate transaminase](#)
- 2.6.1.62 [adenosylmethionine-8-amino-7-oxononanoate transaminase](#)
- 2.6.1.63 [kynurenine-glyoxylate transaminase](#)
- 2.6.1.64 [glutamine-phenylpyruvate transaminase](#)
- 2.6.1.65 [N6-acetyl-beta-lysine transaminase](#)
- 2.6.1.66 [valine-pyruvate transaminase](#)
- 2.6.1.67 [2-aminohexanoate transaminase](#)
- 2.6.1.68 [ornithine\(lysine\) transaminase](#)
- 2.6.1.69 [N2-acetylornithine 5-transaminase](#)
- 2.6.1.70 [aspartate-phenylpyruvate transaminase](#)
- 2.6.1.71 [lysine-pyruvate 6-transaminase](#)
- 2.6.1.72 [D-4-hydroxyphenylglycine transaminase](#)
- 2.6.1.73 [methionine-glyoxylate transaminase](#)
- 2.6.1.74 [cephalosporin-C transaminase](#)
- 2.6.1.75 [cysteine-conjugate transaminase](#)
- 2.6.1.76 [diaminobutyrate-2-oxoglutarate transaminase](#)
- 2.6.1.77 [taurine-pyruvate aminotransferase](#)
- 2.6.1.78 [aspartate-prephenate aminotransferase](#)
- 2.6.1.79 [glutamate-prephenate aminotransferase](#)
- 2.6.1.80 [nicotianamine aminotransferase](#)
- 2.6.1.81 [succinylornithine transaminase](#)
- 2.6.1.82 [putrescine aminotransferase](#)
- 2.6.1.83 [LL-diaminopimelate aminotransferase](#)
- 2.6.1.84 [arginine-pyruvate transaminase](#)
- 2.6.1.85 [aminodeoxychorismate synthase](#)
- 2.6.1.86 [2-amino-4-deoxychorismate synthase](#)
- 2.6.2.1 [Recommended Name never specified](#)
- 2.6.3.1 [oximinotransferase](#)
- 2.6.99.1 [dATP\(dGTP\)-DNA purinetransferase](#)
- 2.6.99.2 [pyridoxine 5'-phosphate synthase](#)
- 2.7.1.1 [hexokinase](#)
- 2.7.1.B1 [NAD kinase](#)
- 2.7.1.2 [glucokinase](#)
- 2.7.1.B2 [glycerate 2-kinase](#)
- 2.7.1.B3 [hygromycin B 4-O-kinase](#)
- 2.7.1.3 [ketohexokinase](#)
- 2.7.1.B4 [CTP-dependent diacylglycerol kinase](#)
- 2.7.1.4 [fructokinase](#)
- 2.7.1.5 [rhamnulokinase](#)
- 2.7.1.6 [galactokinase](#)
- 2.7.1.7 [mannokinase](#)
- 2.7.1.8 [glucosamine kinase](#)

- 2.7.1.9 [acetylaminodeoxyglucose kinase](#)
- 2.7.1.10 [phosphogluokinase](#)
- 2.7.1.11 [6-phosphofructokinase](#)
- 2.7.1.12 [gluconokinase](#)
- 2.7.1.13 [dehydrogluconokinase](#)
- 2.7.1.14 [sedoheptulokinase](#)
- 2.7.1.15 [ribokinase](#)
- 2.7.1.16 [ribulokinase](#)
- 2.7.1.17 [xylulokinase](#)
- 2.7.1.18 [phosphoribokinase](#)
- 2.7.1.19 [phosphoribulokinase](#)
- 2.7.1.20 [adenosine kinase](#)
- 2.7.1.21 [thymidine kinase](#)
- 2.7.1.22 [ribosylnicotinamide kinase](#)
- 2.7.1.23 [NAD<sup>+</sup> kinase](#)
- 2.7.1.24 [dephospho-CoA kinase](#)
- 2.7.1.25 [adenylyl-sulfate kinase](#)
- 2.7.1.26 [riboflavin kinase](#)
- 2.7.1.27 [erythritol kinase](#)
- 2.7.1.28 [triokinase](#)
- 2.7.1.29 [glycerone kinase](#)
- 2.7.1.30 [glycerol kinase](#)
- 2.7.1.31 [glycerate kinase](#)
- 2.7.1.32 [choline kinase](#)
- 2.7.1.33 [pantothenate kinase](#)
- 2.7.1.34 [pantheine kinase](#)
- 2.7.1.35 [pyridoxal kinase](#)
- 2.7.1.36 [mevalonate kinase](#)
- 2.7.1.37 [protein kinase](#)
- 2.7.1.38 [phosphorylase kinase](#)
- 2.7.1.39 [homoserine kinase](#)
- 2.7.1.40 [pyruvate kinase](#)
- 2.7.1.41 [glucose-1-phosphate phosphodismutase](#)
- 2.7.1.42 [riboflavin phosphotransferase](#)
- 2.7.1.43 [glucuronokinase](#)
- 2.7.1.44 [galacturonokinase](#)
- 2.7.1.45 [2-dehydro-3-deoxygluconokinase](#)
- 2.7.1.46 [L-arabinokinase](#)
- 2.7.1.47 [D-ribulokinase](#)
- 2.7.1.48 [uridine kinase](#)
- 2.7.1.49 [hydroxymethylpyrimidine kinase](#)
- 2.7.1.50 [hydroxyethylthiazole kinase](#)
- 2.7.1.51 [L-fuculokinase](#)
- 2.7.1.52 [fucokinase](#)
- 2.7.1.53 [L-xylulokinase](#)
- 2.7.1.54 [D-arabinokinase](#)
- 2.7.1.55 [alloose kinase](#)
- 2.7.1.56 [1-phosphofructokinase](#)
- 2.7.1.57 [mannitol kinase](#)
- 2.7.1.58 [2-dehydro-3-deoxygalactonokinase](#)
- 2.7.1.59 [N-acetylglucosamine kinase](#)

- 2.7.1.60 [N-acylmannosamine kinase](#)
- 2.7.1.61 [acyl-phosphate-hexose phosphotransferase](#)
- 2.7.1.62 [phosphoramidate-hexose phosphotransferase](#)
- 2.7.1.63 [polyphosphate-glucose phosphotransferase](#)
- 2.7.1.64 [inositol 3-kinase](#)
- 2.7.1.65 [scyllo-inosamine 4-kinase](#)
- 2.7.1.66 [undecaprenol kinase](#)
- 2.7.1.67 [1-phosphatidylinositol 4-kinase](#)
- 2.7.1.68 [1-phosphatidylinositol-4-phosphate 5-kinase](#)
- 2.7.1.69 [protein-Npi-phosphohistidine-sugar phosphotransferase](#)
- 2.7.1.70 [protamine kinase](#)
- 2.7.1.71 [shikimate kinase](#)
- 2.7.1.72 [streptomycin 6-kinase](#)
- 2.7.1.73 [inosine kinase](#)
- 2.7.1.74 [deoxycytidine kinase](#)
- 2.7.1.75 [thymidine kinase](#)
- 2.7.1.76 [deoxyadenosine kinase](#)
- 2.7.1.77 [nucleoside phosphotransferase](#)
- 2.7.1.78 [polynucleotide 5'-hydroxyl-kinase](#)
- 2.7.1.79 [diphosphate-glycerol phosphotransferase](#)
- 2.7.1.80 [diphosphate-serine phosphotransferase](#)
- 2.7.1.81 [hydroxylysine kinase](#)
- 2.7.1.82 [ethanolamine kinase](#)
- 2.7.1.83 [pseudouridine kinase](#)
- 2.7.1.84 [alkylglycerone kinase](#)
- 2.7.1.85 [beta-glucoside kinase](#)
- 2.7.1.86 [NADH kinase](#)
- 2.7.1.87 [streptomycin 3"-kinase](#)
- 2.7.1.88 [dihydrostreptomycin-6-phosphate 3'alpha-kinase](#)
- 2.7.1.89 [thiamine kinase](#)
- 2.7.1.90 [diphosphate-fructose-6-phosphate 1-phosphotransferase](#)
- 2.7.1.91 [sphinganine kinase](#)
- 2.7.1.92 [5-dehydro-2-deoxygluconokinase](#)
- 2.7.1.93 [alkylglycerol kinase](#)
- 2.7.1.94 [acylglycerol kinase](#)
- 2.7.1.95 [kanamycin kinase](#)
- 2.7.1.96 [NADH kinase](#)
- 2.7.1.97 [opsin kinase](#)
- 2.7.1.98 [phosphoenolpyruvate-fructose phosphotransferase](#)
- 2.7.1.99 [\[pyruvate dehydrogenase \(lipoamide\)\] kinase](#)
- 2.7.1.100 [S-methyl-5-thioribose kinase](#)
- 2.7.1.101 [tagatose kinase](#)
- 2.7.1.102 [hamamelose kinase](#)
- 2.7.1.103 [viomycin kinase](#)
- 2.7.1.104 [diphosphate-protein phosphotransferase](#)
- 2.7.1.105 [6-phosphofructo-2-kinase](#)
- 2.7.1.106 [glucose-1,6-bisphosphate synthase](#)
- 2.7.1.107 [diacylglycerol kinase](#)
- 2.7.1.108 [dolichol kinase](#)
- 2.7.1.109 [\[hydroxymethylglutaryl-CoA reductase \(NADPH\)\] kinase](#)
- 2.7.1.110 [dephospho-\[reductase kinase\] kinase](#)

- 2.7.1.111 [Acetyl-CoA carboxylase] kinase
- 2.7.1.112 protein-tyrosine kinase
- 2.7.1.113 deoxyguanosine kinase
- 2.7.1.114 AMP-thymidine kinase
- 2.7.1.115 [3-methyl-2-oxobutanoate dehydrogenase (lipoamide)] kinase
- 2.7.1.116 [isocitrate dehydrogenase (NADP+)] kinase
- 2.7.1.117 myosin-light-chain kinase
- 2.7.1.118 ADP-thymidine kinase
- 2.7.1.119 hygromycin-B 7"-O-kinase
- 2.7.1.120 caldesmon kinase
- 2.7.1.121 phosphoenolpyruvate-glycerone phosphotransferase
- 2.7.1.122 xylitol kinase
- 2.7.1.123 Ca<sup>2+</sup>/calmodulin-dependent protein kinase
- 2.7.1.124 [tyrosine 3-monooxygenase] kinase
- 2.7.1.125 rhodopsin kinase
- 2.7.1.126 beta-adrenergic-receptor kinase
- 2.7.1.127 inositol-trisphosphate 3-kinase
- 2.7.1.128 [acetyl-CoA carboxylase] kinase
- 2.7.1.129 myosin-heavy-chain kinase
- 2.7.1.130 tetraacyldisaccharide 4'-kinase
- 2.7.1.131 low-density-lipoprotein kinase
- 2.7.1.132 tropomyosin kinase
- 2.7.1.133 inositol-trisphosphate 6-kinase
- 2.7.1.134 inositol-tetrakisphosphate 1-kinase
- 2.7.1.135 tau-protein kinase
- 2.7.1.136 macrolide 2'-kinase
- 2.7.1.137 phosphatidylinositol 3-kinase
- 2.7.1.138 ceramide kinase
- 2.7.1.139 inositol-trisphosphate 5-kinase
- 2.7.1.140 inositol-tetrakisphosphate 5-kinase
- 2.7.1.141 [RNA-polymerase]-subunit kinase
- 2.7.1.142 glycerol-3-phosphate-glucose phosphotransferase
- 2.7.1.143 diphosphate-purine nucleoside kinase
- 2.7.1.144 tagatose-6-phosphate kinase
- 2.7.1.145 deoxynucleoside kinase
- 2.7.1.146 ADP-specific phosphofructokinase
- 2.7.1.147 ADP-specific glucokinase
- 2.7.1.148 4-(cytidine 5'-diphospho)-2-C-methyl-D-erythritol kinase
- 2.7.1.149 1-phosphatidylinositol-5-phosphate 4-kinase
- 2.7.1.150 1-phosphatidylinositol-3-phosphate 5-kinase
- 2.7.1.151 inositol-polyphosphate multikinase
- 2.7.1.152 inositol-hexakisphosphate kinase
- 2.7.1.153 phosphatidylinositol-4,5-bisphosphate 3-kinase
- 2.7.1.154 phosphatidylinositol-4-phosphate 3-kinase
- 2.7.1.155 diphosphoinositol-pentakisphosphate kinase
- 2.7.1.156 adenosylcobinamide kinase
- 2.7.1.157 N-acetylgalactosamine kinase
- 2.7.1.158 inositol-pentakisphosphate 2-kinase
- 2.7.1.159 inositol-1,3,4-trisphosphate 5/6-kinase
- 2.7.1.160 2'-phosphotransferase
- 2.7.1.161 CTP-dependent riboflavin kinase

- 2.7.1.162 [N-acetylhexosamine 1-kinase](#)  
2.7.2.1 [acetate kinase](#)  
2.7.2.2 [carbamate kinase](#)  
2.7.2.3 [phosphoglycerate kinase](#)  
2.7.2.4 [aspartate kinase](#)  
2.7.2.5 [carbamoyl-phosphate synthase \(ammonia\)](#)  
2.7.2.6 [formate kinase](#)  
2.7.2.7 [butyrate kinase](#)  
2.7.2.8 [acetylglutamate kinase](#)  
2.7.2.9 [carbamoyl-phosphate synthase \(glutamine\)](#)  
2.7.2.10 [phosphoglycerate kinase \(GTP\)](#)  
2.7.2.11 [glutamate 5-kinase](#)  
2.7.2.12 [acetate kinase \(diphosphate\)](#)  
2.7.2.13 [glutamate 1-kinase](#)  
2.7.2.14 [branched-chain-fatty-acid kinase](#)  
2.7.2.15 [propionate kinase](#)  
2.7.3.1 [guanidinoacetate kinase](#)  
2.7.3.2 [creatine kinase](#)  
2.7.3.3 [arginine kinase](#)  
2.7.3.4 [taurocyamine kinase](#)  
2.7.3.5 [lombricine kinase](#)  
2.7.3.6 [hypotaurocyamine kinase](#)  
2.7.3.7 [opheline kinase](#)  
2.7.3.8 [ammonia kinase](#)  
2.7.3.9 [phosphoenolpyruvate-protein phosphotransferase](#)  
2.7.3.10 [agmatine kinase](#)  
2.7.3.11 [protein-histidine pros-kinase](#)  
2.7.3.12 [protein-histidine tele-kinase](#)  
2.7.4.1 [polyphosphate kinase](#)  
2.7.4.B1 [yeast UMP kinase](#)  
2.7.4.2 [phosphomevalonate kinase](#)  
2.7.4.B2 [polyphosphate-AMP phosphotransferase](#)  
2.7.4.3 [adenylate kinase](#)  
2.7.4.4 [nucleoside-phosphate kinase](#)  
2.7.4.5 [deoxycytidylate kinase](#)  
2.7.4.6 [nucleoside-diphosphate kinase](#)  
2.7.4.7 [phosphomethylpyrimidine kinase](#)  
2.7.4.8 [guanylate kinase](#)  
2.7.4.9 [dTTP kinase](#)  
2.7.4.10 [nucleoside-triphosphate-adenylate kinase](#)  
2.7.4.11 [\(deoxy\)adenylate kinase](#)  
2.7.4.12 [T2-induced deoxynucleotide kinase](#)  
2.7.4.13 [\(deoxy\)nucleoside-phosphate kinase](#)  
2.7.4.14 [cytidylate kinase](#)  
2.7.4.15 [thiamine-diphosphate kinase](#)  
2.7.4.16 [thiamine-phosphate kinase](#)  
2.7.4.17 [3-phosphoglyceroyl-phosphate-polyphosphate phosphotransferase](#)  
2.7.4.18 [farnesyl-diphosphate kinase](#)  
2.7.4.19 [5-methyldeoxycytidine-5'-phosphate kinase](#)  
2.7.4.20 [dolichyl-diphosphate-polyphosphate phosphotransferase](#)  
2.7.4.21 [inositol-hexakisphosphate kinase](#)

- 2.7.4.22 [UMP kinase](#)
- 2.7.4.23 [ribose 1,5-bisphosphate phosphokinase](#)
- 2.7.4.24 [diphosphoinositol-pentakisphosphate kinase](#)
- 2.7.5.1 [phosphoglucomutase](#)
- 2.7.5.2 [acetylglucosamine phosphomutase](#)
- 2.7.5.3 [phosphoglyceromutase](#)
- 2.7.5.4 [bisphosphoglyceromutase](#)
- 2.7.5.5 [phosphoglucomutase \(glucose-cofactor\)](#)
- 2.7.5.6 [phosphopentomutase](#)
- 2.7.5.7 [phosphomannomutase](#)
- 2.7.6.1 [ribose-phosphate diphosphokinase](#)
- 2.7.6.2 [thiamine diphosphokinase](#)
- 2.7.6.3 [2-amino-4-hydroxy-6-hydroxymethylidihydropteridine diphosphokinase](#)
- 2.7.6.4 [nucleotide diphosphokinase](#)
- 2.7.6.5 [GTP diphosphokinase](#)
- 2.7.7.1 [nicotinamide-nucleotide adenylyltransferase](#)
- 2.7.7.2 [FAD synthetase](#)
- 2.7.7.B2 [GDP-L-galactose phosphorylase](#)
- 2.7.7.3 [pantetheine-phosphate adenylyltransferase](#)
- 2.7.7.4 [sulfate adenylyltransferase](#)
- 2.7.7.5 [sulfate adenylyltransferase \(ADP\)](#)
- 2.7.7.6 [DNA-directed RNA polymerase](#)
- 2.7.7.7 [DNA-directed DNA polymerase](#)
- 2.7.7.8 [polyribonucleotide nucleotidyltransferase](#)
- 2.7.7.9 [UTP-glucose-1-phosphate uridylyltransferase](#)
- 2.7.7.10 [UTP-hexose-1-phosphate uridylyltransferase](#)
- 2.7.7.11 [UTP-xylose-1-phosphate uridylyltransferase](#)
- 2.7.7.12 [UDP-glucose-hexose-1-phosphate uridylyltransferase](#)
- 2.7.7.13 [mannose-1-phosphate guanylyltransferase](#)
- 2.7.7.14 [ethanolamine-phosphate cytidylyltransferase](#)
- 2.7.7.15 [choline-phosphate cytidylyltransferase](#)
- 2.7.7.16 [ribonuclease](#)
- 2.7.7.17 [ribonuclease](#)
- 2.7.7.18 [nicotinate-nucleotide adenylyltransferase](#)
- 2.7.7.19 [polynucleotide adenylyltransferase](#)
- 2.7.7.20 [sRNA nucleotidyl transferase](#)
- 2.7.7.21 [tRNA cytidylyltransferase](#)
- 2.7.7.22 [mannose-1-phosphate guanylyltransferase \(GDP\)](#)
- 2.7.7.23 [UDP-N-acetylglucosamine diphosphorylase](#)
- 2.7.7.24 [glucose-1-phosphate thymidyllyltransferase](#)
- 2.7.7.25 [tRNA adenylyltransferase](#)
- 2.7.7.26 [guanylribonuclease](#)
- 2.7.7.27 [glucose-1-phosphate adenylyltransferase](#)
- 2.7.7.28 [nucleoside-triphosphate-aldehyde-1-phosphate nucleotidyltransferase](#)
- 2.7.7.29 [hexose-1-phosphate guanylyltransferase](#)
- 2.7.7.30 [fucose-1-phosphate guanylyltransferase](#)
- 2.7.7.31 [DNA nucleotidylexotransferase](#)
- 2.7.7.32 [galactose-1-phosphate thymidyllyltransferase](#)
- 2.7.7.33 [glucose-1-phosphate cytidylyltransferase](#)
- 2.7.7.34 [glucose-1-phosphate guanylyltransferase](#)
- 2.7.7.35 [ribose-5-phosphate adenylyltransferase](#)

- 2.7.7.36 [aldose-1-phosphate adenylyltransferase](#)  
2.7.7.37 [aldose-1-phosphate nucleotidyltransferase](#)  
2.7.7.38 [3-deoxy-manno-octulosonate cytidylyltransferase](#)  
2.7.7.39 [glycerol-3-phosphate cytidylyltransferase](#)  
2.7.7.40 [D-ribitol-5-phosphate cytidylyltransferase](#)  
2.7.7.41 [phosphatidate cytidylyltransferase](#)  
2.7.7.42 [\[glutamate-ammonia-lyase\] adenylyltransferase](#)  
2.7.7.43 [N-acylneuraminate cytidylyltransferase](#)  
2.7.7.44 [glucuronate-1-phosphate uridylyltransferase](#)  
2.7.7.45 [guanosine-triphosphate guanylyltransferase](#)  
2.7.7.46 [gentamicin 2"-nucleotidyltransferase](#)  
2.7.7.47 [streptomycin 3"-adenylyltransferase](#)  
2.7.7.48 [RNA-directed RNA polymerase](#)  
2.7.7.49 [RNA-directed DNA polymerase](#)  
2.7.7.50 [mRNA guanylyltransferase](#)  
2.7.7.51 [adenylylsulfate-ammonia adenylyltransferase](#)  
2.7.7.52 [RNA uridylyltransferase](#)  
2.7.7.53 [ATP adenylyltransferase](#)  
2.7.7.54 [phenylalanine adenylyltransferase](#)  
2.7.7.55 [anthranilate adenylyltransferase](#)  
2.7.7.56 [tRNA nucleotidyltransferase](#)  
2.7.7.57 [N-methylphosphoethanolamine cytidylyltransferase](#)  
2.7.7.58 [\(2,3-dihydroxybenzoyl\)adenylate synthase](#)  
2.7.7.59 [\[protein-PII\] uridylyltransferase](#)  
2.7.7.60 [2-C-methyl-D-erythritol 4-phosphate cytidylyltransferase](#)  
2.7.7.61 [citrate lyase holo-\[acyl-carrier protein\] synthase](#)  
2.7.7.62 [adenosylcobinamide-phosphate guanylyltransferase](#)  
2.7.7.63 [lipoate-protein ligase](#)  
2.7.7.64 [UTP-monosaccharide-1-phosphate uridylyltransferase](#)  
2.7.7.65 [diguanylate cyclase](#)  
2.7.7.66 [malonate decarboxylase holo-\[acyl-carrier protein\] synthase](#)  
2.7.7.67 [CDP-archaeol synthase](#)  
2.7.8.1 [ethanolaminephosphotransferase](#)  
2.7.8.2 [diacylglycerol cholinephosphotransferase](#)  
2.7.8.3 [ceramide cholinephosphotransferase](#)  
2.7.8.4 [serine-phosphoethanolamine synthase](#)  
2.7.8.5 [CDP-diacylglycerol-glycerol-3-phosphate 3-phosphatidyltransferase](#)  
2.7.8.6 [undecaprenyl-phosphate galactose phosphotransferase](#)  
2.7.8.7 [holo-\[acyl-carrier-protein\] synthase](#)  
2.7.8.8 [CDP-diacylglycerol-serine O-phosphatidyltransferase](#)  
2.7.8.9 [phosphomannan mannosephosphotransferase](#)  
2.7.8.10 [sphingosine cholinephosphotransferase](#)  
2.7.8.11 [CDP-diacylglycerol-inositol 3-phosphatidyltransferase](#)  
2.7.8.12 [CDP-glycerol glycerophosphotransferase](#)  
2.7.8.13 [phospho-N-acetylmuramoyl-pentapeptide-transferase](#)  
2.7.8.14 [CDP-ribitol ribitolphosphotransferase](#)  
2.7.8.15 [UDP-N-acetylglucosamine-dolichyl-phosphate N-acetylglucosaminephosphotransferase](#)  
2.7.8.16 [1-alkyl-2-acetylglycerol choline phosphotransferase](#)  
2.7.8.17 [UDP-N-acetylglucosamine-lysosomal-enzyme N-acetylglucosaminephosphotransferase](#)

- 2.7.8.18 [UDP-galactose-UDP-N-acetylglucosamine galactose phosphotransferase](#)  
2.7.8.19 [UDP-glucose-glycoprotein glucose phosphotransferase](#)  
2.7.8.20 [phosphatidylglycerol-membrane-oligosaccharide glycerophosphotransferase](#)  
2.7.8.21 [membrane-oligosaccharide glycerophosphotransferase](#)  
2.7.8.22 [1-alkenyl-2-acylglycerol choline phosphotransferase](#)  
2.7.8.23 [carboxyvinyl-carboxyphosphonate phosphorylmutase](#)  
2.7.8.24 [phosphatidylcholine synthase](#)  
2.7.8.25 [triphosphoribosyl-dephospho-CoA synthase](#)  
2.7.8.26 [adenosylcobinamide-GDP ribazoletransferase](#)  
2.7.8.27 [sphingomyelin synthase](#)  
2.7.9.1 [pyruvate, phosphate dikinase](#)  
2.7.9.2 [pyruvate, water dikinase](#)  
2.7.9.3 [selenide, water dikinase](#)  
2.7.9.4 [alpha-glucan, water dikinase](#)  
2.7.9.5 [phosphoglucan, water dikinase](#)  
2.7.10.1 [receptor protein-tyrosine kinase](#)  
2.7.10.2 [non-specific protein-tyrosine kinase](#)  
2.7.11.1 [non-specific serine/threonine protein kinase](#)  
2.7.11.2 [\[pyruvate dehydrogenase \(acetyl-transferring\)\] kinase](#)  
2.7.11.3 [dephospho-\[reductase kinase\] kinase](#)  
2.7.11.4 [\[3-methyl-2-oxobutanoate dehydrogenase \(acetyl-transferring\)\] kinase](#)  
2.7.11.5 [\[Isocitrate dehydrogenase \(NADP+\)\] kinase](#)  
2.7.11.6 [\[tyrosine 3-monooxygenase\] kinase](#)  
2.7.11.7 [myosin-heavy-chain kinase](#)  
2.7.11.8 [Fas-activated serine/threonine kinase](#)  
2.7.11.9 [Goodpasture-antigen-binding protein kinase](#)  
2.7.11.10 [IkappaB kinase](#)  
2.7.11.11 [cAMP-dependent protein kinase](#)  
2.7.11.12 [cGMP-dependent protein kinase](#)  
2.7.11.13 [protein kinase C](#)  
2.7.11.14 [rhodopsin kinase](#)  
2.7.11.15 [beta-adrenergic-receptor kinase](#)  
2.7.11.16 [G-protein-coupled receptor kinase](#)  
2.7.11.17 [Ca2+/calmodulin-dependent protein kinase](#)  
2.7.11.18 [myosin-light-chain kinase](#)  
2.7.11.19 [phosphorylase kinase](#)  
2.7.11.20 [elongation factor 2 kinase](#)  
2.7.11.21 [polo kinase](#)  
2.7.11.22 [cyclin-dependent kinase](#)  
2.7.11.23 [\[RNA-polymerase\]-subunit kinase](#)  
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3.2.1.52 [beta-N-acetylhexosaminidase](#)  
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3.2.1.55 [alpha-N-arabinofuranosidase](#)  
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3.2.1.58 [glucan 1,3-beta-glucosidase](#)  
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- 3.2.1.72 [xylan 1,3-beta-xylosidase](#)
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- 3.2.1.74 [glucan 1,4-beta-glucosidase](#)
- 3.2.1.75 [glucan endo-1,6-beta-glucosidase](#)
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- 3.2.1.77 [mannan 1,2-\(1,3\)-alpha-mannosidase](#)
- 3.2.1.78 [mannan endo-1,4-beta-mannosidase](#)
- 3.2.1.79 [alpha-L-arabinofuranoside hydrolase](#)
- 3.2.1.80 [fructan beta-fructosidase](#)
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- 3.2.1.117 [amygdalin beta-glucosidase](#)
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- 3.4.4.21 [kallikrein](#)
- 3.4.4.22 [recommended Name never specified](#)
- 3.4.4.23 [recommended Name never specified](#)
- 3.4.4.24 [recommended Name never specified](#)
- 3.4.4.25 [keratinase](#)
  - 3.4.11.1 [leucyl aminopeptidase](#)
  - 3.4.11.2 [membrane alanyl aminopeptidase](#)
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- 3.4.19.8 [recommended Name never specified](#)
- 3.4.19.9 [gamma-glutamyl hydrolase](#)
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- 3.4.21.B5 [mast cell protease 5](#)
- 3.4.21.5 [thrombin](#)
- 3.4.21.6 [coagulation factor Xa](#)
- 3.4.21.B6 [prostasin](#)
- 3.4.21.B7 [mannan-binding lectin-associated serine protease 1](#)
- 3.4.21.7 [plasmin](#)
- 3.4.21.8 [kallikrein](#)
- 3.4.21.9 [enteropeptidase](#)
- 3.4.21.10 [acrosin](#)
- 3.4.21.B10 [neurosin](#)
- 3.4.21.11 [elastase](#)
- 3.4.21.12 [alpha-lytic endopeptidase](#)
- 3.4.21.B12 [prostase](#)
- 3.4.21.13 [phaseolus proteinase](#)

- 3.4.21.14 [microbial serine proteases \(included subtilisin, Escherichia coli periplasmic proteinase, Aspergillus alkaline proteinase, Tritirachium alkaline proteinase, Arthrobacter serine proteinase, thermomycolin, thermophilic Streptomyces serine proteinase and Can](#)
- 3.4.21.15 [Aspergillus alkaline proteinase](#)
- 3.4.21.16 [Alternaria serine proteinase](#)
- 3.4.21.17 [Arthrobacter serine proteinase](#)
- 3.4.21.18 [Tenebrio alpha-proteinase](#)
- 3.4.21.19 [glutamyl endopeptidase](#)
- 3.4.21.20 [cathepsin G](#)
- 3.4.21.21 [coagulation factor VIIa](#)
- 3.4.21.B21 [trepolisin](#)
- 3.4.21.22 [coagulation factor IXa](#)
- 3.4.21.23 [Vipera russelli proteinase](#)
- 3.4.21.B24 [proprotein convertase 4](#)
- 3.4.21.24 [red cell neutral endopeptidase](#)
- 3.4.21.25 [cucumisin](#)
- 3.4.21.B25 [PACE4 proprotein convertase](#)
- 3.4.21.26 [prolyl oligopeptidase](#)
- 3.4.21.B26 [proprotein convertase 5](#)
- 3.4.21.27 [coagulation factor XIa](#)
- 3.4.21.B27 [proprotein convertase 7](#)
- 3.4.21.28 [Agkistrodon serine proteinase](#)
- 3.4.21.B28 [fibroblast activation protein alpha subunit](#)
- 3.4.21.29 [Bothrops atrox serine proteinase](#)
- 3.4.21.30 [Crotalus adamanteus serine proteinase](#)
- 3.4.21.B30 [UmuD protein](#)
- 3.4.21.31 [urokinase](#)
- 3.4.21.32 [brachyurin](#)
- 3.4.21.33 [Entomophthora collagenolytic proteinase](#)
- 3.4.21.34 [plasma kallikrein](#)
- 3.4.21.B34 [tricorn core protease \(archaea\)](#)
- 3.4.21.35 [tissue kallikrein](#)
- 3.4.21.36 [pancreatic elastase](#)
- 3.4.21.37 [leukocyte elastase](#)
- 3.4.21.38 [coagulation factor XIIa](#)
- 3.4.21.39 [chymase](#)
- 3.4.21.B39 [stratum corneum tryptic enzyme](#)
- 3.4.21.B40 [kallikrein 9](#)
- 3.4.21.40 [submandibular proteinase A](#)
- 3.4.21.41 [complement subcomponent C1r](#)
- 3.4.21.B41 [kallikrein 10](#)
- 3.4.21.42 [complement subcomponent C1s](#)
- 3.4.21.B42 [hippostasin](#)
- 3.4.21.43 [classical-complement-pathway C3/C5 convertase](#)
- 3.4.21.B43 [kallikrein 12](#)
- 3.4.21.44 [complement component C5 convertase](#)
- 3.4.21.45 [complement factor I](#)
- 3.4.21.B45 [kallikrein 14](#)
- 3.4.21.46 [complement factor D](#)
- 3.4.21.47 [alternative-complement-pathway C3/C5 convertase](#)
- 3.4.21.48 [cerevisin](#)

- 3.4.21.B48 [kumamolysin](#)
- 3.4.21.B49 [ctpB peptidase](#)
- 3.4.21.49 [hypodermin C](#)
- 3.4.21.B50 [DegQ peptidase](#)
- 3.4.21.50 [lysyl endopeptidase](#)
- 3.4.21.51 [leukocyte-membrane neutral endopeptidase](#)
- 3.4.21.52 [cathepsin R](#)
- 3.4.21.53 [Endopeptidase La](#)
- 3.4.21.54 [gamma-Renin](#)
- 3.4.21.55 [Venombin AB](#)
- 3.4.21.56 [euphorbain](#)
- 3.4.21.57 [Leucyl endopeptidase](#)
- 3.4.21.58 [prohormone serine proteinase](#)
- 3.4.21.59 [Tryptase](#)
- 3.4.21.60 [Scutellarin](#)
- 3.4.21.61 [Kexin](#)
- 3.4.21.62 [Subtilisin](#)
- 3.4.21.63 [Oryzin](#)
- 3.4.21.64 [peptidase K](#)
- 3.4.21.65 [Thermomycolin](#)
- 3.4.21.66 [Thermitase](#)
- 3.4.21.67 [Endopeptidase So](#)
- 3.4.21.68 [t-Plasminogen activator](#)
- 3.4.21.69 [Protein C \(activated\)](#)
- 3.4.21.70 [Pancreatic endopeptidase E](#)
- 3.4.21.71 [Pancreatic elastase II](#)
- 3.4.21.72 [IgA-specific serine endopeptidase](#)
- 3.4.21.73 [u-Plasminogen activator](#)
- 3.4.21.74 [Venombin A](#)
- 3.4.21.75 [Furin](#)
- 3.4.21.76 [Myeloblastin](#)
- 3.4.21.77 [semenogelase](#)
- 3.4.21.78 [Granzyme A](#)
- 3.4.21.79 [Granzyme B](#)
- 3.4.21.80 [Streptogrisin A](#)
- 3.4.21.81 [Streptogrisin B](#)
- 3.4.21.82 [Glutamyl endopeptidase II](#)
- 3.4.21.83 [Oligopeptidase B](#)
- 3.4.21.84 [Limulus clotting factor C](#)
- 3.4.21.85 [Limulus clotting factor B](#)
- 3.4.21.86 [Limulus clotting enzyme](#)
- 3.4.21.87 [omptin](#)
- 3.4.21.88 [Repressor LexA](#)
- 3.4.21.89 [Signal peptidase I](#)
- 3.4.21.90 [Togavirin](#)
- 3.4.21.91 [Flavivirin](#)
- 3.4.21.92 [Endopeptidase Clp](#)
- 3.4.21.93 [Proprotein convertase 1](#)
- 3.4.21.94 [proprotein convertase 2](#)
- 3.4.21.95 [Snake venom factor V activator](#)
- 3.4.21.96 [Lactocepin](#)

- 3.4.21.97 [assemblin](#)
- 3.4.21.98 [hepacivirin](#)
- 3.4.21.99 [spermosin](#)
- 3.4.21.100 [sedolisin](#)
- 3.4.21.101 [xanthomonalisin](#)
- 3.4.21.102 [C-terminal processing peptidase](#)
- 3.4.21.103 [physarolisin](#)
- 3.4.21.104 [mannan-binding lectin-associated serine protease-2](#)
- 3.4.21.105 [rhomboid protease](#)
- 3.4.21.106 [hepsin](#)
- 3.4.21.107 [peptidase Do](#)
- 3.4.21.108 [HtrA2 peptidase](#)
- 3.4.21.109 [matriptase](#)
- 3.4.21.110 [C5a peptidase](#)
- 3.4.21.111 [aqualysin 1](#)
- 3.4.21.112 [site-1 protease](#)
- 3.4.21.113 [pestivirus NS3 polyprotein peptidase](#)
- 3.4.21.114 [equine arterivirus serine peptidase](#)
- 3.4.21.115 [infectious pancreatic necrosis birnavirus Vp4 peptidase](#)
- 3.4.21.116 [SpolVB peptidase](#)
- 3.4.21.117 [stratum corneum chymotryptic enzyme](#)
- 3.4.21.118 [kallikrein 8](#)
- 3.4.21.119 [kallikrein 13](#)
- 3.4.21.120 [oviductin](#)
- 3.4.22.1 [cathepsin B](#)
- 3.4.22.B1 [vignain](#)
- 3.4.22.2 [papain](#)
- 3.4.22.3 [ficain](#)
- 3.4.22.4 [bromelain \(stem\)](#)
- 3.4.22.5 [bromelain \(juice\)](#)
- 3.4.22.B5 [CPB protease](#)
- 3.4.22.B6 [cathepsin B-like protease](#)
- 3.4.22.6 [chymopapain](#)
- 3.4.22.7 [asclepain](#)
- 3.4.22.8 [clostripain](#)
- 3.4.22.B8 [Tpr proteinase \(\*Porphyromonas gingivalis\*\)](#)
- 3.4.22.9 [yeast proteinase B](#)
- 3.4.22.10 [streptopain](#)
- 3.4.22.11 [insulinase](#)
- 3.4.22.12 [gamma-glutamyl hydrolase](#)
- 3.4.22.B13 [caspase-9](#)
- 3.4.22.13 [staphylococcal cysteine proteinase](#)
- 3.4.22.14 [actininain](#)
- 3.4.22.B14 [papain-like proteinase 1](#)
- 3.4.22.15 [cathepsin L](#)
- 3.4.22.B15 [rabbit hemorrhagic disease virus 3C-like protease](#)
- 3.4.22.16 [cathepsin H](#)
- 3.4.22.B16 [coronavirus main proteinase](#)
- 3.4.22.17 [calpain](#)
- 3.4.22.18 [prolyl endopeptidase \(thiol-dependent\)](#)
- 3.4.22.19 [endo-oligopeptidase](#)

- 3.4.22.B19 [YopJ protease](#)
- 3.4.22.20 [dinorphin-converting enzyme](#)
- 3.4.22.B20 [Pfpl endopeptidase](#)
- 3.4.22.B21 [sortase A](#)
- 3.4.22.21 [yeast cysteine proteinase E](#)
- 3.4.22.B22 [type II CAAX protease](#)
- 3.4.22.22 [yeast cysteine proteinase D](#)
- 3.4.22.23 [yeast cysteine proteinase F](#)
- 3.4.22.B24 [calpain 4](#)
- 3.4.22.24 [Cathepsin T](#)
- 3.4.22.B25 [calpain 5](#)
- 3.4.22.25 [Glycyl endopeptidase](#)
- 3.4.22.B26 [calpain 6](#)
- 3.4.22.26 [Cancer procoagulant](#)
- 3.4.22.B27 [calpain 7](#)
- 3.4.22.27 [cathepsin S](#)
- 3.4.22.B28 [calpain 8](#)
- 3.4.22.28 [picornain 3C](#)
- 3.4.22.B29 [calpain 9](#)
- 3.4.22.29 [picornain 2A](#)
- 3.4.22.B30 [calpain 10](#)
- 3.4.22.30 [Caricain](#)
- 3.4.22.31 [Ananain](#)
- 3.4.22.B31 [calpain 11](#)
- 3.4.22.B32 [calpain 12](#)
- 3.4.22.32 [Stem bromelain](#)
- 3.4.22.33 [Fruit bromelain](#)
- 3.4.22.34 [Legumain](#)
- 3.4.22.B35 [calpain 15](#)
- 3.4.22.35 [Histolysain](#)
- 3.4.22.B36 [calpain A](#)
- 3.4.22.36 [caspase-1](#)
- 3.4.22.B37 [calpain B](#)
- 3.4.22.37 [Gingipain R](#)
- 3.4.22.B38 [calpain C](#)
- 3.4.22.38 [Cathepsin K](#)
- 3.4.22.39 [adenain](#)
- 3.4.22.40 [bleomycin hydrolase](#)
- 3.4.22.41 [cathepsin F](#)
- 3.4.22.42 [cathepsin O](#)
- 3.4.22.43 [cathepsin V](#)
- 3.4.22.44 [nuclear-inclusion-a endopeptidase](#)
- 3.4.22.45 [helper-component proteinase](#)
- 3.4.22.46 [L-peptidase](#)
- 3.4.22.47 [gingipain K](#)
- 3.4.22.B47 [legume cysteine endopeptidase](#)
- 3.4.22.48 [staphopain](#)
- 3.4.22.B49 [cathepsin-L1](#)
- 3.4.22.49 [separase](#)
- 3.4.22.B50 [papain-like proteinase 2](#)
- 3.4.22.50 [V-cath endopeptidase](#)

3.4.22.51 [cruzipain](#)  
3.4.22.B51 [sortase B](#)  
3.4.22.52 [calpain-1](#)  
3.4.22.B52 [major mite fecal allergen Der f 1](#)  
3.4.22.53 [calpain-2](#)  
3.4.22.54 [calpain-3](#)  
3.4.22.55 [caspase-2](#)  
3.4.22.56 [caspase-3](#)  
3.4.22.57 [caspase-4](#)  
3.4.22.58 [caspase-5](#)  
3.4.22.59 [caspase-6](#)  
3.4.22.60 [caspase-7](#)  
3.4.22.61 [caspase-8](#)  
3.4.22.62 [caspase-9](#)  
3.4.22.63 [caspase-10](#)  
3.4.22.64 [caspase-11](#)  
3.4.22.65 [peptidase 1 \(mite\)](#)  
3.4.22.66 [calicivirus](#)  
3.4.22.67 [zingipain](#)  
3.4.22.68 [Ulp1 peptidase](#)  
3.4.23.B1 [napsin](#)  
3.4.23.1 [pepsin A](#)  
3.4.23.2 [pepsin B](#)  
3.4.23.B2 [Simian immunodeficiency virus proteinase](#)  
3.4.23.B3 [equine infectious anemia virus proteinase](#)  
3.4.23.3 [gastricsin](#)  
3.4.23.4 [chymosin](#)  
3.4.23.B4 [Feline immunodeficiency virus protease](#)  
3.4.23.5 [cathepsin D](#)  
3.4.23.B5 [murine leukemia virus protease](#)  
3.4.23.B6 [Mason-Pfizer monkey virus proteinase](#)  
3.4.23.6 [microbial carboxyl proteinases](#)  
3.4.23.B7 [human endogenous retrovirus K10 endopeptidase](#)  
3.4.23.7 [Penicillium janthinellum acid proteinase](#)  
3.4.23.B8 [Simian T-cell leukemia virus endopeptidase](#)  
3.4.23.8 [yeast proteinase A](#)  
3.4.23.B9 [bovine leukemia virus protease](#)  
3.4.23.9 [rhizopus acid proteinase](#)  
3.4.23.10 [endothia acid proteinase](#)  
3.4.23.B10 [Rous sarcoma virus retropepsin](#)  
3.4.23.B11 [spumapepsin](#)  
3.4.23.11 [thyroid aspartic proteinase](#)  
3.4.23.12 [nepenthesin](#)  
3.4.23.13 [Lotus aspartic proteinase](#)  
3.4.23.B13 [proteinase P15](#)  
3.4.23.B14 [plasmeprin IV](#)  
3.4.23.14 [sorghum aspartic proteinase](#)  
3.4.23.15 [renin](#)  
3.4.23.16 [HIV-1 retropepsin](#)  
3.4.23.17 [Pro-opiomelanocortin converting enzyme](#)  
3.4.23.18 [Aspergillopepsin I](#)

- 3.4.23.19 [Aspergillopepsin II](#)
  - 3.4.23.20 [Penicillopepsin](#)
  - 3.4.23.21 [Rhizopuspepsin](#)
  - 3.4.23.22 [Endothiapepsin](#)
  - 3.4.23.23 [Mucorpepsin](#)
  - 3.4.23.24 [Candidapepsin](#)
  - 3.4.23.25 [Saccharopepsin](#)
  - 3.4.23.26 [Rhodotorulapepsin](#)
  - 3.4.23.27 [physaropepsin](#)
  - 3.4.23.28 [Acrocylindropepsin](#)
  - 3.4.23.29 [Polyporopepsin](#)
  - 3.4.23.30 [Pycnoporopepsin](#)
  - 3.4.23.31 [Scytalidopepsin A](#)
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  - 3.4.23.36 [Signal peptidase II](#)
  - 3.4.23.37 [pseudomonapepsin](#)
  - 3.4.23.38 [plasmeprin I](#)
  - 3.4.23.39 [plasmeprin II](#)
  - 3.4.23.40 [Phytepsin](#)
  - 3.4.23.41 [yapsin 1](#)
  - 3.4.23.42 [thermopsin](#)
  - 3.4.23.43 [prepilin peptidase](#)
  - 3.4.23.44 [nodavirus endopeptidase](#)
  - 3.4.23.45 [memapsin 1](#)
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  - 3.4.23.47 [HIV-2 retropepsin](#)
  - 3.4.23.48 [plasminogen activator Pla](#)
  - 3.4.23.49 [omptin](#)
  - 3.4.24.B1 [angiotensin-converting enzyme 2](#)
  - 3.4.24.1 [atrolysin A](#)
  - 3.4.24.B2 [oligoendopeptidase F](#)
  - 3.4.24.2 [Sepia proteinase](#)
  - 3.4.24.3 [microbial collagenase](#)
  - 3.4.24.B3 [stromelysin-3](#)
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  - 3.4.24.4 [microbial metalloproteinases \(included Aeomonas proteolytica neutral proteinase, Pseudomonas aeruginosa neutral proteinase, Pseudomonas aeruginosa alkaline proteinase, Escherichia freundii proteinase, Bacillus thermoproteolyticus neutral proteinase, Bacillus licheniformis neutral proteinase\)](#)
  - 3.4.24.5 [lens neutral proteinase](#)
  - 3.4.24.B5 [matrix metalloproteinase-15](#)
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  - 3.4.24.7 [interstitial collagenase](#)
  - 3.4.24.B7 [matrilysin-2](#)
  - 3.4.24.8 [Achromobacter iophagus collagenase](#)
  - 3.4.24.B8 [ADAM1 endopeptidase](#)
  - 3.4.24.B9 [ADAM9 endopeptidase](#)
  - 3.4.24.9 [Trichophyton schoenleinii collagenase](#)

- 3.4.24.B10 [ADAM12 endopeptidase](#)
- 3.4.24.10 [Trichophyton mentagrophytes keratinase](#)
- 3.4.24.B11 [ADAMTS1 endopeptidase](#)
- 3.4.24.11 [neprilysin](#)
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- 3.4.24.13 [IgA-specific metalloendopeptidase](#)
- 3.4.24.B14 [neprilysin-2](#)
- 3.4.24.14 [procollagen N-endopeptidase](#)
- 3.4.24.B15 [matrix metalloprotease 2 hemopexin domain](#)
- 3.4.24.15 [thimet oligopeptidase](#)
- 3.4.24.16 [neurolysin](#)
- 3.4.24.B16 [protease lasA](#)
- 3.4.24.B17 [FtsH endopeptidase](#)
- 3.4.24.17 [stromelysin 1](#)
- 3.4.24.B18 [m-AAA protease](#)
- 3.4.24.18 [meprin A](#)
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- 3.4.24.19 [procollagen C-endopeptidase](#)
- 3.4.24.B20 [FtsH protease](#)
- 3.4.24.20 [peptidyl-Lys metalloendopeptidase](#)
- 3.4.24.21 [astacin](#)
- 3.4.24.B21 [SpolVB peptidase](#)
- 3.4.24.B22 [hydrogenase maturation endopeptidase](#)
- 3.4.24.22 [stromelysin 2](#)
- 3.4.24.23 [matrilysin](#)
- 3.4.24.B23 [stage IV sporulation protein FB](#)
- 3.4.24.24 [gelatinase A](#)
- 3.4.24.B24 [L-alanine-D-glutamate endopeptidase](#)
- 3.4.24.B25 [MAHCE](#)
- 3.4.24.25 [vibriolysin](#)
- 3.4.24.26 [pseudolysin](#)
- 3.4.24.27 [thermolysin](#)
- 3.4.24.28 [bacillolysin](#)
- 3.4.24.29 [aureolysin](#)
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- 3.4.24.31 [mycolysin](#)
- 3.4.24.32 [beta-Lytic metalloendopeptidase](#)
- 3.4.24.33 [peptidyl-Asp metalloendopeptidase](#)
- 3.4.24.34 [neutrophil collagenase](#)
- 3.4.24.35 [gelatinase B](#)
- 3.4.24.36 [leishmanolysin](#)
- 3.4.24.37 [saccharolysin](#)
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- 3.4.24.39 [deuterolysin](#)
- 3.4.24.40 [serralysin](#)
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- 3.4.24.57 [O-sialoglycoprotein endopeptidase](#)
- 3.4.24.58 [russellysin](#)
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- 3.4.24.65 [macrophage elastase](#)
- 3.4.24.66 [choriolytin L](#)
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- 3.4.24.68 [tentoxilysin](#)
- 3.4.24.69 [bontoxilysin](#)
- 3.4.24.70 [oligopeptidase A](#)
- 3.4.24.71 [endothelin-converting enzyme 1](#)
- 3.4.24.72 [fibrolase](#)
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- 3.4.24.81 [ADAM10 endopeptidase](#)
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- 3.4.24.84 [Ste24 endopeptidase](#)
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- 3.4.99.2 [agavain](#)
- 3.4.99.3 [angiotensinase](#)
- 3.4.99.4 [aspartylendopeptidase](#)
- 3.4.99.5 [Clostridium histolyticum collagenase 2](#)
- 3.4.99.6 [crayfish low-molecular-weight proteinase](#)
- 3.4.99.7 [euphorbain](#)

- 3.4.99.8 [Gliocladium proteinase](#)  
3.4.99.9 [hurain](#)  
3.4.99.10 [insulinase](#)  
3.4.99.11 [Streptomyces alkalophilic keratinase](#)  
3.4.99.12 [Trichophyton mentagrophytes keratinase](#)  
3.4.99.13 [beta-lytic proteinase \(Mycobacterium sorangium\)](#)  
3.4.99.14 [mexicanain](#)  
3.4.99.15 [Paecilomyces proteinase](#)  
3.4.99.16 [Penicillium notatum extracellular proteinase](#)  
3.4.99.17 [peptidoglycan endopeptidase](#)  
3.4.99.18 [pinguinain](#)  
3.4.99.19 [renin](#)  
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- 4.1.1.11 [Aspartate 1-decarboxylase](#)
- 4.1.1.12 [Aspartate 4-decarboxylase](#)
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- 4.1.1.14 [Valine decarboxylase](#)
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- 4.1.1.28 [Aromatic-L-amino-acid decarboxylase](#)
- 4.1.1.29 [Sulfinoalanine decarboxylase](#)
- 4.1.1.30 [pantothenoylcysteine decarboxylase](#)
- 4.1.1.31 [Phosphoenolpyruvate carboxylase](#)
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- 4.1.1.33 [Diphosphomevalonate decarboxylase](#)
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- 4.1.1.36 [Phosphopantethenoylcysteine decarboxylase](#)
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- 4.1.1.38 [phosphoenolpyruvate carboxykinase \(diphosphate\)](#)
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- 4.1.1.51 [3-Hydroxy-2-methylpyridine-4,5-dicarboxylate 4-decarboxylase](#)
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- 4.1.1.57 [Methionine decarboxylase](#)
- 4.1.1.58 [Orsellinate decarboxylase](#)
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- 4.1.1.61 [4-Hydroxybenzoate decarboxylase](#)
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- 4.1.1.67 [UDP-galacturonate decarboxylase](#)
- 4.1.1.68 [5-Oxopent-3-ene-1,2,5-tricarboxylate decarboxylase](#)
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- 4.1.1.74 [Indolepyruvate decarboxylase](#)

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4.1.1.82 [phosphonopyruvate decarboxylase](#)  
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4.1.1.87 [malonyl-S-ACP decarboxylase](#)  
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4.1.2.13 [Fructose-bisphosphate aldolase](#)  
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- 4.1.2.38 [benzoin aldolase](#)
- 4.1.2.39 [hydroxynitrilase](#)
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- 4.1.3.18 [acetolactate synthase](#)
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- 4.1.3.28 [citrate \(re\)-synthase](#)
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- 4.1.3.39 [4-hydroxy-2-oxovalerate aldolase](#)
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- 4.1.99.B2 [\(6-4\) photolyase](#)

- 4.1.99.2 [tyrosine phenol-lyase](#)
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- 4.1.99.4 [1-aminocyclopropane-1-carboxylate deaminase](#)
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- 4.1.99.6 [Trichodiene synthase](#)
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- 4.1.99.8 [pinene synthase](#)
- 4.1.99.9 [myrcene synthase](#)
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- 4.2.1.1 [carbonate dehydratase](#)
- 4.2.1.B1 [L-galactonate dehydratase](#)
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- 4.2.1.2 [fumarate hydratase](#)
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- 4.2.1.13 [L-serine dehydratase](#)
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- 4.2.1.15 [homoserine dehydratase](#)
- 4.2.1.16 [threonine dehydratase](#)
- 4.2.1.17 [enoyl-CoA hydratase](#)
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- 4.2.1.20 [tryptophan synthase](#)
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- 4.2.1.22 [Cystathionine beta-synthase](#)
- 4.2.1.23 [methylcysteine synthase](#)
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- 4.2.1.25 [L-Arabinonate dehydratase](#)
- 4.2.1.26 [aminodeoxygluconate dehydratase](#)
- 4.2.1.27 [acetylenecarboxylate hydratase](#)
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- 4.2.1.33 [3-isopropylmalate dehydratase](#)
- 4.2.1.34 [\(S\)-2-Methylmalate dehydratase](#)
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- 4.2.1.36 [homoaconitate hydratase](#)
- 4.2.1.37 [trans-epoxysuccinate hydratase](#)

- 4.2.1.38 [erythro-3-hydroxyaspartate dehydratase](#)
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- 4.2.1.40 [glucarate dehydratase](#)
- 4.2.1.41 [5-dehydro-4-deoxyglucarate dehydratase](#)
- 4.2.1.42 [Galactarate dehydratase](#)
- 4.2.1.43 [2-dehydro-3-deoxy-L-arabinonate dehydratase](#)
- 4.2.1.44 [Myo-inosose-2 dehydratase](#)
- 4.2.1.45 [CDP-glucose 4,6-dehydratase](#)
- 4.2.1.46 [dTDP-glucose 4,6-dehydratase](#)
- 4.2.1.47 [GDP-mannose 4,6-dehydratase](#)
- 4.2.1.48 [D-glutamate cyclase](#)
- 4.2.1.49 [Urocanate hydratase](#)
- 4.2.1.50 [Pyrazolylalanine synthase](#)
- 4.2.1.51 [prephenate dehydratase](#)
- 4.2.1.52 [dihydrodipicolinate synthase](#)
- 4.2.1.53 [Oleate hydratase](#)
- 4.2.1.54 [lactoyl-CoA dehydratase](#)
- 4.2.1.55 [3-Hydroxybutyryl-CoA dehydratase](#)
- 4.2.1.56 [Itaconyl-CoA hydratase](#)
- 4.2.1.57 [Isohexenylglutaconyl-CoA hydratase](#)
- 4.2.1.58 [Crotonoyl-\[acyl-carrier-protein\] hydratase](#)
- 4.2.1.59 [3-Hydroxyoctanoyl-\[acyl-carrier-protein\] dehydratase](#)
- 4.2.1.60 [3-Hydroxydecanoyl-\[acyl-carrier-protein\] dehydratase](#)
- 4.2.1.61 [3-Hydroxypalmitoyl-\[acyl-carrier-protein\] dehydratase](#)
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- 4.2.1.63 [epoxide hydratase](#)
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- 4.2.1.65 [3-Cyanoalanine hydratase](#)
- 4.2.1.66 [cyanide hydratase](#)
- 4.2.1.67 [D-fuconate dehydratase](#)
- 4.2.1.68 [L-fuconate dehydratase](#)
- 4.2.1.69 [cyanamide hydratase](#)
- 4.2.1.70 [pseudouridylate synthase](#)
- 4.2.1.71 [acetylenecarboxylate hydratase](#)
- 4.2.1.72 [acetylenedicarboxylate hydratase](#)
- 4.2.1.73 [Protoaphin-aglucone dehydratase \(cyclizing\)](#)
- 4.2.1.74 [long-chain-enoyl-CoA hydratase](#)
- 4.2.1.75 [uroporphyrinogen-III synthase](#)
- 4.2.1.76 [UDP-glucose 4,6-dehydratase](#)
- 4.2.1.77 [trans-L-3-Hydroxyproline dehydratase](#)
- 4.2.1.78 [\(S\)-Noroclaurine synthase](#)
- 4.2.1.79 [2-Methylcitrate dehydratase](#)
- 4.2.1.80 [2-oxopent-4-enoate hydratase](#)
- 4.2.1.81 [D\(-\)-tartrate dehydratase](#)
- 4.2.1.82 [xylonate dehydratase](#)
- 4.2.1.83 [4-oxalmesaconate hydratase](#)
- 4.2.1.84 [nitrile hydratase](#)
- 4.2.1.85 [dimethylmaleate hydratase](#)
- 4.2.1.86 [16-dehydroprogesterone hydratase](#)
- 4.2.1.87 [octopamine dehydratase](#)
- 4.2.1.88 [synephrine dehydratase](#)

- 4.2.1.89 carnitine dehydratase  
4.2.1.90 L-rhamnonate dehydratase  
4.2.1.91 arogenate dehydratase  
4.2.1.92 hydroperoxide dehydratase  
4.2.1.93 ATP-dependent NAD(P)H-hydrate dehydratase  
4.2.1.94 scytalone dehydratase  
4.2.1.95 Kievitone hydratase  
4.2.1.96 4a-hydroxytetrahydrobiopterin dehydratase  
4.2.1.97 phaseollidin hydratase  
4.2.1.98 16alpha-hydroxyprogesterone dehydratase  
4.2.1.99 2-methylisocitrate dehydratase  
4.2.1.100 cyclohexa-1,5-dienecarbonyl-CoA hydratase  
4.2.1.101 trans-feruloyl-CoA hydratase  
4.2.1.102 cyclohexa-1,5-dienecarbonyl-CoA hydratase  
4.2.1.103 cyclohexyl-isocyanide hydratase  
4.2.1.104 cyanase  
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4.2.1.107 3alpha,7alpha,12alpha-trihydroxy-5beta-cholest-24-enyl-CoA hydratase  
4.2.1.108 ectoine synthase  
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4.2.1.113 o-succinylbenzoate synthase
- 4.2.2.1 hyaluronate lyase  
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4.2.2.3 poly(beta-D-mannuronate) lyase  
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4.2.2.5 chondroitin AC lyase  
4.2.2.6 oligogalacturonide lyase  
4.2.2.7 heparin lyase  
4.2.2.8 heparin-sulfate lyase  
4.2.2.9 pectate disaccharide-lyase  
4.2.2.10 pectin lyase  
4.2.2.11 poly(alpha-L-guluronate) lyase  
4.2.2.12 xanthan lyase  
4.2.2.13 exo-(1->4)-alpha-D-glucan lyase  
4.2.2.14 glucuronan lyase  
4.2.2.15 anhydrosialidase  
4.2.2.16 levan fructotransferase (DFA-IV-forming)  
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4.2.2.18 inulin fructotransferase (DFA-III-forming)  
4.2.2.19 chondroitin B lyase  
4.2.2.20 chondroitin-sulfate-ABC endolyase  
4.2.2.21 chondroitin-sulfate-ABC exolyase  
4.2.2.22 pectate trisaccharide-lyase
- 4.2.3.1 threonine synthase  
4.2.3.2 ethanolamine-phosphate phospho-lyase  
4.2.3.3 methylglyoxal synthase  
4.2.3.4 3-dehydroquinate synthase

- 4.2.3.5 [chorismate synthase](#)
- 4.2.3.6 [trichodiene synthase](#)
- 4.2.3.7 [pentalenene synthase](#)
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- 4.2.3.14 [pinene synthase](#)
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- 4.2.3.17 [taxadiene synthase](#)
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- 4.2.3.29 [ent-sandaracopimaradiene synthase](#)
- 4.2.3.30 [ent-pimara-8\(14\),15-diene synthase](#)
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- 4.2.99.1 [hyaluronate lyase](#)
- 4.2.99.2 [threonine synthase](#)
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- 4.2.99.5 [Polyglucuronide lyase](#)
- 4.2.99.6 [Chondroitin sulfate lyase](#)
- 4.2.99.7 [ethanolamine-phosphate phospho-lyase](#)
- 4.2.99.8 [cysteine synthase](#)
- 4.2.99.9 [O-succinylhomoserine \(thiol\)-lyase](#)
- 4.2.99.10 [O-acetylhomoserine \(thiol\)-lyase](#)
- 4.2.99.11 [methylglyoxal synthase](#)
- 4.2.99.12 [carboxymethyloxysuccinate lyase](#)
- 4.2.99.13 [beta-\(9-cytokinin\)-alanine synthase](#)
- 4.2.99.14 [beta-pyrazolylalanine synthase \(acetylserine\)](#)
- 4.2.99.15 [L-mimosine synthase](#)
- 4.2.99.16 [uracilylalanine synthase](#)
- 4.2.99.17 [thermopsin](#)
- 4.2.99.18 [DNA-\(apurinic or apyrimidinic site\) lyase](#)

- 4.2.99.19 [2-hydroxypropyl-CoM lyase](#)  
4.2.99.20 [2-succinyl-6-hydroxy-2,4-cyclohexadiene-1-carboxylate synthase](#)  
4.3.1.1 [aspartate ammonia-lyase](#)  
4.3.1.2 [methylaspartate ammonia-lyase](#)  
4.3.1.3 [histidine ammonia-lyase](#)  
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4.3.1.7 [ethanolamine ammonia-lyase](#)  
4.3.1.8 [hydroxymethylbilane synthase](#)  
4.3.1.9 [glucosamine ammonia-lyase](#)  
4.3.1.10 [serine-sulfate ammonia-lyase](#)  
4.3.1.11 [dihydroxyphenylalanine ammonia-lyase](#)  
4.3.1.12 [ornithine cyclodeaminase](#)  
4.3.1.13 [carbamoyl-serine ammonia-lyase](#)  
4.3.1.14 [3-Aminobutyryl-CoA ammonia-lyase](#)  
4.3.1.15 [Diaminopropionate ammonia-lyase](#)  
4.3.1.16 [threo-3-hydroxyaspartate ammonia-lyase](#)  
4.3.1.17 [L-Serine ammonia-lyase](#)  
4.3.1.18 [D-Serine ammonia-lyase](#)  
4.3.1.19 [threonine ammonia-lyase](#)  
4.3.1.20 [Erythro-3-hydroxyaspartate ammonia-lyase](#)  
4.3.1.21 [aminodeoxygluconate ammonia-lyase](#)  
4.3.1.22 [3,4-dihydroxyphenylalanine reductive deaminase](#)  
4.3.1.23 [tyrosine ammonia-lyase](#)  
4.3.1.24 [phenylalanine ammonia-lyase](#)  
4.3.1.25 [phenylalanine/tyrosine ammonia-lyase](#)  
4.3.2.1 [argininosuccinate lyase](#)  
4.3.2.2 [adenylosuccinate lyase](#)  
4.3.2.3 [ureidoglycolate lyase](#)  
4.3.2.4 [purine imidazole-ring cyclase](#)  
4.3.2.5 [peptidylamidoglycolate lyase](#)  
4.3.3.1 [3-ketovalidoxylamine C-N-lyase](#)  
4.3.3.2 [strictosidine synthase](#)  
4.3.3.3 [deacetylisopecoside synthase](#)  
4.3.3.4 [deacetylipecoside synthase](#)  
4.3.99.1 [cyanate lyase](#)  
4.3.99.2 [carboxybiotin decarboxylase](#)  
4.4.1.1 [cystathionine gamma-lyase](#)  
4.4.1.B1 [holocytochrome-c1 synthase](#)  
4.4.1.2 [homocysteine desulhydrase](#)  
4.4.1.3 [dimethylpropiothetin dethiomethylase](#)  
4.4.1.4 [alliin lyase](#)  
4.4.1.5 [lactoylglutathione lyase](#)  
4.4.1.6 [S-alkylcysteine lyase](#)  
4.4.1.7 [S-\(Hydroxylalkyl\)glutathione lyase](#)  
4.4.1.8 [cystathionine beta-lyase](#)  
4.4.1.9 [L-3-cyanoalanine synthase](#)  
4.4.1.10 [cysteine lyase](#)  
4.4.1.11 [methionine gamma-lyase](#)  
4.4.1.12 [sulfoacetaldehyde lyase](#)

- 4.4.1.13 [cysteine-S-conjugate beta-lyase](#)
- 4.4.1.14 [1-aminocyclopropane-1-carboxylate synthase](#)
- 4.4.1.15 [D-cysteine desulphydrase](#)
- 4.4.1.16 [selenocysteine lyase](#)
- 4.4.1.17 [Holocytochrome-c synthase](#)
- 4.4.1.18 [prenylcysteine lyase](#)
- 4.4.1.19 [phosphosulfolactate synthase](#)
- 4.4.1.20 [leukotriene-C4 synthase](#)
- 4.4.1.21 [S-ribosylhomocysteine lyase](#)
- 4.4.1.22 [S-\(hydroxymethyl\)glutathione synthase](#)
- 4.4.1.23 [2-hydroxypropyl-CoM lyase](#)
- 4.4.1.24 [sulfolactate sulfo-lyase](#)
- 4.4.1.25 [L-cysteate sulfo-lyase](#)
- 4.5.1.1 [DDT-dehydrochlorinase](#)
- 4.5.1.2 [3-chloro-D-alanine dehydrochlorinase](#)
- 4.5.1.3 [dichloromethane dehalogenase](#)
- 4.5.1.4 [L-2-amino-4-chloropent-4-enoate dehydrochlorinase](#)
- 4.5.1.5 [S-carboxymethylcysteine synthase](#)
- 4.6.1.1 [adenylate cyclase](#)
- 4.6.1.2 [guanylate cyclase](#)
- 4.6.1.3 [3-dehydroquinate synthase](#)
- 4.6.1.4 [chorismate synthase](#)
- 4.6.1.5 [pentalenene synthase](#)
- 4.6.1.6 [cytidylate cyclase](#)
- 4.6.1.7 [casbene synthase](#)
- 4.6.1.8 [\(-\)-endo-fenchol synthase](#)
- 4.6.1.9 [sabinene-hydrate synthase](#)
- 4.6.1.10 [6-pyruvoyltetrahydropterin synthase](#)
- 4.6.1.11 [\(+\)-d-cadinene synthase](#)
- 4.6.1.12 [2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase](#)
- 4.6.1.13 [phosphatidylinositol diacylglycerol-lyase](#)
- 4.6.1.14 [glycosylphosphatidylinositol diacylglycerol-lyase](#)
- 4.6.1.15 [FAD-AMP lyase \(cyclizing\)](#)
- 4.99.1.1 [ferrochelatase](#)
- 4.99.1.2 [alkylmercury lyase](#)
- 4.99.1.3 [sirohydrochlorin cobaltochelatase](#)
- 4.99.1.4 [sirohydrochlorin ferrochelatase](#)
- 4.99.1.5 [aliphatic aldoxime dehydratase](#)
- 4.99.1.6 [indoleacetaldoxime dehydratase](#)
- 4.99.1.7 [phenylacetaldoxime dehydratase](#)
- 5.1.1.1 [Alanine racemase](#)
- 5.1.1.2 [Methionine racemase](#)
- 5.1.1.3 [Glutamate racemase](#)
- 5.1.1.4 [Proline racemase](#)
- 5.1.1.5 [Lysine racemase](#)
- 5.1.1.6 [Threonine racemase](#)
- 5.1.1.7 [Diaminopimelate epimerase](#)
- 5.1.1.8 [4-Hydroxyproline epimerase](#)
- 5.1.1.9 [Arginine racemase](#)
- 5.1.1.10 [Amino-acid racemase](#)
- 5.1.1.11 [Phenylalanine racemase \(ATP-hydrolysing\)](#)

- 5.1.1.12 [Ornithine racemase](#)
- 5.1.1.13 [Aspartate racemase](#)
- 5.1.1.14 [Nocardicin-A epimerase](#)
- 5.1.1.15 [2-Aminohexano-6-lactam racemase](#)
- 5.1.1.16 [Protein-serine epimerase](#)
- 5.1.1.17 [isopenicillin-N epimerase](#)
- 5.1.1.18 [serine racemase](#)
- 5.1.2.1 [Lactate racemase](#)
- 5.1.2.2 [mandelate racemase](#)
- 5.1.2.3 [3-Hydroxybutyryl-CoA epimerase](#)
- 5.1.2.4 [Acetoin racemase](#)
- 5.1.2.5 [Tartrate epimerase](#)
- 5.1.2.6 [Isocitrate epimerase](#)
- 5.1.3.B1 [galactose 1-epimerase](#)
- 5.1.3.1 [Ribulose-phosphate 3-epimerase](#)
- 5.1.3.2 [UDP-glucose 4-epimerase](#)
- 5.1.3.3 [Aldose 1-epimerase](#)
- 5.1.3.4 [L-ribulose-5-phosphate 4-epimerase](#)
- 5.1.3.5 [UDP-arabinose 4-epimerase](#)
- 5.1.3.6 [UDP-glucuronate 4-epimerase](#)
- 5.1.3.7 [UDP-N-acetylglucosamine 4-epimerase](#)
- 5.1.3.8 [N-Acylglucosamine 2-epimerase](#)
- 5.1.3.9 [N-Acylglucosamine-6-phosphate 2-epimerase](#)
- 5.1.3.10 [CDP-paratose 2-epimerase](#)
- 5.1.3.11 [Cellbiose epimerase](#)
- 5.1.3.12 [UDP-glucuronate 5'-epimerase](#)
- 5.1.3.13 [dTDP-4-dehydrorhamnose 3,5-epimerase](#)
- 5.1.3.14 [UDP-N-acetylglucosamine 2-epimerase](#)
- 5.1.3.15 [Glucose-6-phosphate 1-epimerase](#)
- 5.1.3.16 [UDP-glucosamine 4-epimerase](#)
- 5.1.3.17 [heparosan-N-sulfate-glucuronate 5-epimerase](#)
- 5.1.3.18 [GDP-mannose 3,5-epimerase](#)
- 5.1.3.19 [chondroitin-glucuronate 5-epimerase](#)
- 5.1.3.20 [ADP-glyceromanno-heptose 6-epimerase](#)
- 5.1.3.21 [maltose epimerase](#)
- 5.1.3.22 [L-ribulose-5-phosphate 3-epimerase](#)
- 5.1.3.23 [UDP-2,3-diacetamido-2,3-dideoxyglucuronic acid 2-epimerase](#)
- 5.1.99.1 [Methylmalonyl-CoA epimerase](#)
- 5.1.99.2 [16-Hydroxysteroid epimerase](#)
- 5.1.99.3 [Allantoin racemase](#)
- 5.1.99.4 [alpha-Methylacyl-CoA racemase](#)
- 5.1.99.5 [hydantoin racemase](#)
- 5.2.1.1 [Maleate isomerase](#)
- 5.2.1.2 [Maleylacetoacetate isomerase](#)
- 5.2.1.3 [Retinal isomerase](#)
- 5.2.1.4 [Maleylpyruvate isomerase](#)
- 5.2.1.5 [Linoleate isomerase](#)
- 5.2.1.6 [Furylfuramide isomerase](#)
- 5.2.1.7 [Retinol isomerase](#)
- 5.2.1.8 [Peptidylprolyl isomerase](#)
- 5.2.1.9 [Farnesol 2-isomerase](#)

- 5.2.1.10 [2-Chloro-4-carboxymethylenebut-2-en-1,4-oxide isomerase](#)  
5.2.1.11 [4-hydroxyphenylacetaldehyde-oxime isomerase](#)  
5.3.1.1 [Triose-phosphate isomerase](#)  
5.3.1.2 [erythrose isomerase](#)  
5.3.1.3 [Arabinose isomerase](#)  
5.3.1.4 [L-Arabinose isomerase](#)  
5.3.1.5 [Xylose isomerase](#)  
5.3.1.6 [Ribose-5-phosphate isomerase](#)  
5.3.1.7 [Mannose isomerase](#)  
5.3.1.8 [Mannose-6-phosphate isomerase](#)  
5.3.1.9 [Glucose-6-phosphate isomerase](#)  
5.3.1.10 [glucosamine-6-phosphate isomerase](#)  
5.3.1.11 [acetylglucosaminephosphatase isomerase](#)  
5.3.1.12 [Glucuronate isomerase](#)  
5.3.1.13 [Arabinose-5-phosphate isomerase](#)  
5.3.1.14 [L-Rhamnose isomerase](#)  
5.3.1.15 [D-Lyxose ketol-isomerase](#)  
5.3.1.16 [1-\(5-phosphoribosyl\)-5-\[\(5-phosphoribosylamino\)methylideneamino\]imidazole-4-carboxamide isomerase](#)  
5.3.1.17 [4-Deoxy-L-threo-5-hexosulose-uronate ketol-isomerase](#)  
5.3.1.18 [glucose isomerase](#)  
5.3.1.19 [glucosaminephosphate isomerase](#)  
5.3.1.20 [Ribose isomerase](#)  
5.3.1.21 [Corticosteroid side-chain-isomerase](#)  
5.3.1.22 [Hydroxypyruvate isomerase](#)  
5.3.1.23 [S-methyl-5-thioribose-1-phosphate isomerase](#)  
5.3.1.24 [phosphoribosylanthranilate isomerase](#)  
5.3.1.25 [L-Fucose isomerase](#)  
5.3.1.26 [Galactose-6-phosphate isomerase](#)  
5.3.1.27 [6-phospho-3-hexuloisomerase](#)  
5.3.2.1 [Phenylpyruvate tautomerase](#)  
5.3.2.2 [oxaloacetate tautomerase](#)  
5.3.3.1 [steroid DELTA-isomerase](#)  
5.3.3.2 [isopentenyl-diphosphate DELTA-isomerase](#)  
5.3.3.3 [vinylacetyl-CoA DELTA-isomerase](#)  
5.3.3.4 [muconolactone DELTA-isomerase](#)  
5.3.3.5 [cholestenol DELTA-isomerase](#)  
5.3.3.6 [methylitaconate DELTA-isomerase](#)  
5.3.3.7 [aconitate DELTA-isomerase](#)  
5.3.3.8 [dodecenoyl-CoA isomerase](#)  
5.3.3.9 [prostaglandin-A1 DELTA-isomerase](#)  
5.3.3.10 [5-carboxymethyl-2-hydroxymuconate DELTA-isomerase](#)  
5.3.3.11 [isopiperitenone DELTA-isomerase](#)  
5.3.3.12 [L-dopachrome isomerase](#)  
5.3.3.13 [polyenoic fatty acid isomerase](#)  
5.3.3.14 [trans-2-decenoyl-\[acyl-carrier protein\] isomerase](#)  
5.3.3.15 [ascopyrone tautomerase](#)  
5.3.4.1 [Protein disulfide-isomerase](#)  
5.3.99.1 [hydroperoxide isomerase](#)  
5.3.99.2 [Prostaglandin-D synthase](#)  
5.3.99.3 [prostaglandin-E synthase](#)

- 5.3.99.4 [prostaglandin-I synthase](#)
- 5.3.99.5 [Thromboxane-A synthase](#)
- 5.3.99.6 [Allene-oxide cyclase](#)
- 5.3.99.7 [styrene-oxide isomerase](#)
- 5.3.99.8 [capsanthin/capsorubin synthase](#)
- 5.3.99.9 [neoxanthin synthase](#)
- 5.4.1.1 [Lysolecithin acylmutase](#)
- 5.4.1.2 [Pecorrin-8X methylmutase](#)
- 5.4.2.1 [Phosphoglycerate mutase](#)
- 5.4.2.2 [Phosphoglucomutase](#)
- 5.4.2.3 [Phosphoacetylglucosamine mutase](#)
- 5.4.2.4 [Bisphosphoglycerate mutase](#)
- 5.4.2.5 [Phosphoglucomutase \(glucose-cofactor\)](#)
- 5.4.2.6 [beta-Phosphoglucomutase](#)
- 5.4.2.7 [Phosphopentomutase](#)
- 5.4.2.8 [Phosphomannomutase](#)
- 5.4.2.9 [phosphoenolpyruvate mutase](#)
- 5.4.2.10 [phosphoglucosamine mutase](#)
- 5.4.3.1 [ornithine 4,5-aminomutase](#)
- 5.4.3.2 [lysine 2,3-aminomutase](#)
- 5.4.3.3 [beta-lysine 5,6-aminomutase](#)
- 5.4.3.4 [D-lysine 5,6-aminomutase](#)
- 5.4.3.5 [D-ornithine 4,5-aminomutase](#)
- 5.4.3.6 [tyrosine 2,3-aminomutase](#)
- 5.4.3.7 [leucine 2,3-aminomutase](#)
- 5.4.3.8 [glutamate-1-semialdehyde 2,1-aminomutase](#)
- 5.4.4.1 [\(hydroxyamino\)benzene mutase](#)
- 5.4.4.2 [Isochorismate synthase](#)
- 5.4.4.3 [3-\(hydroxyamino\)phenol mutase](#)
- 5.4.99.B1 [beta-amyrin synthase](#)
- 5.4.99.1 [Methylaspartate mutase](#)
- 5.4.99.2 [Methylmalonyl-CoA mutase](#)
- 5.4.99.B2 [multifunctional triterpene synthase](#)
- 5.4.99.3 [2-Acetolactate mutase](#)
- 5.4.99.B3 [lupeol synthase](#)
- 5.4.99.4 [2-Methylene glutarate mutase](#)
- 5.4.99.B4 [23S rRNA pseudouridine synthase](#)
- 5.4.99.5 [Chorismate mutase](#)
- 5.4.99.6 [isochorismate synthase](#)
- 5.4.99.7 [Lanosterol synthase](#)
- 5.4.99.8 [Cycloartenol synthase](#)
- 5.4.99.9 [UDP-galactopyranose mutase](#)
- 5.4.99.10 [isomaltulose synthetase](#)
- 5.4.99.11 [Isomaltulose synthase](#)
- 5.4.99.12 [tRNA-pseudouridine synthase I](#)
- 5.4.99.13 [isobutyryl-CoA mutase](#)
- 5.4.99.14 [4-Carboxymethyl-4-methylbutenolide mutase](#)
- 5.4.99.15 [\(1->4\)-alpha-D-Glucan 1-alpha-D-glucosylmutase](#)
- 5.4.99.16 [maltose alpha-D-glucosyltransferase](#)
- 5.4.99.17 [squalene-hopene cyclase](#)
- 5.4.99.18 [5-\(carboxyamino\)imidazole ribonucleotide mutase](#)

5.5.1.1 [Muconate cycloisomerase](#)  
5.5.1.2 [3-Carboxy-cis,cis-muconate cycloisomerase](#)  
5.5.1.3 [Tetrahydroxypteridine cycloisomerase](#)  
5.5.1.4 [inositol-3-phosphate synthase](#)  
5.5.1.5 [Carboxy-cis,cis-muconate cyclase](#)  
5.5.1.6 [Chalcone isomerase](#)  
5.5.1.7 [Chloromuconate cycloisomerase](#)  
5.5.1.8 [bornyl diphosphate synthase](#)  
5.5.1.9 [Cycloeucalenol cycloisomerase](#)  
5.5.1.10 [alpha-pinene-oxide decyclase](#)  
5.5.1.11 [dichloromuconate cycloisomerase](#)  
5.5.1.12 [copalyl diphosphate synthase](#)  
5.5.1.13 [ent-copalyl diphosphate synthase](#)  
5.5.1.14 [syn-copalyl-diphosphate synthase](#)  
5.5.1.15 [terpentedienyl-diphosphate synthase](#)  
5.5.1.16 [halimadienyl-diphosphate synthase](#)  
5.99.1.1 [Thiocyanate isomerase](#)  
5.99.1.2 [DNA topoisomerase](#)  
5.99.1.3 [DNA topoisomerase \(ATP-hydrolysing\)](#)  
6.1.1.B1 [L-cysteine:1D-myo-inositol 2-amino-2-deoxy-alpha-D-glucopyranoside ligase](#)  
6.1.1.1 [Tyrosine-tRNA ligase](#)  
6.1.1.2 [O-phosphoseryl-tRNA ligase](#)  
6.1.1.2 [Tryptophan-tRNA ligase](#)  
6.1.1.3 [Threonine-tRNA ligase](#)  
6.1.1.4 [Leucine-tRNA ligase](#)  
6.1.1.5 [Isoleucine-tRNA ligase](#)  
6.1.1.6 [Lysine-tRNA ligase](#)  
6.1.1.7 [Alanine-tRNA ligase](#)  
6.1.1.8 [D-alanine-sRNA synthetase](#)  
6.1.1.9 [Valine-tRNA ligase](#)  
6.1.1.10 [Methionine-tRNA ligase](#)  
6.1.1.11 [Serine-tRNA ligase](#)  
6.1.1.12 [Aspartate-tRNA ligase](#)  
6.1.1.13 [D-Alanine-poly\(phosphoribitol\) ligase](#)  
6.1.1.14 [glycine-tRNA ligase](#)  
6.1.1.15 [Proline-tRNA ligase](#)  
6.1.1.16 [Cysteine-tRNA ligase](#)  
6.1.1.17 [Glutamate-tRNA ligase](#)  
6.1.1.18 [Glutamine-tRNA ligase](#)  
6.1.1.19 [Arginine-tRNA ligase](#)  
6.1.1.20 [Phenylalanine-tRNA ligase](#)  
6.1.1.21 [Histidine-tRNA ligase](#)  
6.1.1.22 [Asparagine-tRNA ligase](#)  
6.1.1.23 [aspartate-tRNAA<sub>n</sub> ligase](#)  
6.1.1.24 [glutamate-tRNAGln ligase](#)  
6.1.1.25 [lysine-tRNAPyl ligase](#)  
6.1.1.26 [pyrrolysine-tRNAPyl ligase](#)  
6.2.1.1 [Acetate-CoA ligase](#)  
6.2.1.B1 [O-succinylbenzoate-CoA ligase \(ADP-forming\)](#)  
6.2.1.2 [Butyrate-CoA ligase](#)  
6.2.1.3 [Long-chain-fatty-acid-CoA ligase](#)

- 6.2.1.4 [succinate-CoA ligase \(GDP-forming\)](#)
- 6.2.1.5 [Succinate-CoA ligase \(ADP-forming\)](#)
- 6.2.1.6 [Glutarate-CoA ligase](#)
- 6.2.1.7 [Cholate-CoA ligase](#)
- 6.2.1.8 [Oxalate-CoA ligase](#)
- 6.2.1.9 [Malate-CoA ligase](#)
- 6.2.1.10 [Acid-CoA ligase \(GDP-forming\)](#)
- 6.2.1.11 [Biotin-CoA ligase](#)
- 6.2.1.12 [4-Coumarate-CoA ligase](#)
- 6.2.1.13 [Acetate-CoA ligase \(ADP-forming\)](#)
- 6.2.1.14 [6-Carboxyhexanoate-CoA ligase](#)
- 6.2.1.15 [Arachidonate-CoA ligase](#)
- 6.2.1.16 [Acetoacetate-CoA ligase](#)
- 6.2.1.17 [Propionate-CoA ligase](#)
- 6.2.1.18 [citrate-CoA ligase](#)
- 6.2.1.19 [Long-chain-fatty-acid-luciferin-component ligase](#)
- 6.2.1.20 [Long-chain-fatty-acid-\[acyl-carrier-protein\] ligase](#)
- 6.2.1.21 [phenylacetate-CoA ligase](#)
- 6.2.1.22 [\[citrate \(pro-3S\)-lyase\] ligase](#)
- 6.2.1.23 [Dicarboxylate-CoA ligase](#)
- 6.2.1.24 [Phytanate-CoA ligase](#)
- 6.2.1.25 [Benzoate-CoA ligase](#)
- 6.2.1.26 [O-succinylbenzoate-CoA ligase](#)
- 6.2.1.27 [4-hydroxybenzoate-CoA ligase](#)
- 6.2.1.28 [3alpha,7alpha-Dihydroxy-5beta-cholestane-CoA ligase](#)
- 6.2.1.29 [3alpha,7alpha,12alpha-trihydroxy-5beta-cholestane-CoA ligase](#)
- 6.2.1.30 [phenylacetate-CoA ligase](#)
- 6.2.1.31 [2-Furoate-CoA ligase](#)
- 6.2.1.32 [anthranilate-CoA ligase](#)
- 6.2.1.33 [4-Chlorobenzoate-CoA ligase](#)
- 6.2.1.34 [trans-feruloyl-CoA synthase](#)
- 6.2.1.35 [ACP-SH:acetate ligase](#)
- 6.3.1.1 [Aspartate-ammonia ligase](#)
- 6.3.1.2 [Glutamate-ammonia ligase](#)
- 6.3.1.3 [phosphoribosyl-glycinamide synthetase](#)
- 6.3.1.4 [aspartate-ammonia ligase \(ADP-forming\)](#)
- 6.3.1.5 [NAD<sup>+</sup> synthase](#)
- 6.3.1.6 [Glutamate-ethylamine ligase](#)
- 6.3.1.7 [4-Methyleneglutamate-ammonia ligase](#)
- 6.3.1.8 [Glutathionylspermidine synthase](#)
- 6.3.1.9 [Trypanothione synthase](#)
- 6.3.1.10 [adenosylcobinamide-phosphate synthase](#)
- 6.3.1.11 [glutamate-putrescine ligase](#)
- 6.3.1.12 [D-aspartate ligase](#)
- 6.3.2.1 [Pantoate-beta-alanine ligase](#)
- 6.3.2.B1 [ubiquitin-activating enzyme](#)
- 6.3.2.2 [Glutamate-cysteine ligase](#)
- 6.3.2.3 [Glutathione synthase](#)
- 6.3.2.4 [D-Alanine-D-alanine ligase](#)
- 6.3.2.5 [phosphopantothenate-cysteine ligase](#)
- 6.3.2.6 [Phosphoribosylaminoimidazolesuccinocarboxamide synthase](#)

- 6.3.2.7 [UDP-N-acetyl muramoyl-L-alanyl-D-glutamate-L-lysine ligase](#)
- 6.3.2.8 [UDP-N-acetyl muramate-L-alanine ligase](#)
- 6.3.2.9 [UDP-N-acetyl muramoyl-L-alanine-D-glutamate ligase](#)
- 6.3.2.10 [UDP-N-acetyl muramoyl-tripeptide-D-alanyl-D-alanine ligase](#)
- 6.3.2.11 [Carnosine synthase](#)
- 6.3.2.12 [dihydrofolate synthase](#)
- 6.3.2.13 [UDP-N-acetyl muramoyl-L-alanyl-D-glutamate-2,6-diaminopimelate ligase](#)
- 6.3.2.14 [2,3-Dihydroxybenzoate-serine ligase](#)
- 6.3.2.15 [UDP-N-acetyl muramoylalanyl-D-glutamyl-2,6-diamino-pimelate-D-alanyl-D-alanine ligase](#)
- 6.3.2.16 [D-Alanine-alanyl-poly\(glycerolphosphate\) ligase](#)
- 6.3.2.17 [tetrahydrofolate synthase](#)
- 6.3.2.18 [gamma-Glutamylhistamine synthase](#)
- 6.3.2.19 [Ubiquitin-protein ligase](#)
- 6.3.2.20 [Indoleacetate-lysine synthetase](#)
- 6.3.2.21 [ubiquitin-calmodulin ligase](#)
- 6.3.2.22 [Diphthine-ammonia ligase](#)
- 6.3.2.23 [homoglutathione synthase](#)
- 6.3.2.24 [tyrosine-arginine ligase](#)
- 6.3.2.25 [Tubulin-tyrosine ligase](#)
- 6.3.2.26 [N-\(5-amino-5-carboxypentanoyl\)-L-cysteinyl-D-valine synthase](#)
- 6.3.2.27 [aerobactin synthase](#)
- 6.3.2.28 [L-amino-acid alpha-ligase](#)
- 6.3.2.29 [cyanophycin synthase \(L-aspartate-adding\)](#)
- 6.3.2.30 [cyanophycin synthase \(L-arginine-adding\)](#)
- 6.3.3.1 [Phosphoribosylformylglycinamide cyclo-ligase](#)
- 6.3.3.2 [5-Formyltetrahydrofolate cyclo-ligase](#)
- 6.3.3.3 [Dethiobiotin synthase](#)
- 6.3.3.4 [\(carboxyethyl\)arginine beta-lactam-synthase](#)
- 6.3.4.1 [GMP synthase](#)
- 6.3.4.2 [CTP synthase](#)
- 6.3.4.3 [formate-tetrahydrofolate ligase](#)
- 6.3.4.4 [Adenylosuccinate synthase](#)
- 6.3.4.5 [Argininosuccinate synthase](#)
- 6.3.4.6 [Urea carboxylase](#)
- 6.3.4.7 [Ribose-5-phosphate-ammonia ligase](#)
- 6.3.4.8 [Imidazoleacetate-phosphoribosyl diposphate ligase](#)
- 6.3.4.9 [Biotin-\[methylmalonyl-CoA-carboxytransferase\] ligase](#)
- 6.3.4.10 [Biotin-\[propionyl-CoA-carboxylase \(ATP-hydrolysing\)\] ligase](#)
- 6.3.4.11 [Biotin-\[methylcrotonoyl-CoA-carboxylase\] ligase](#)
- 6.3.4.12 [Glutamate-methylamine ligase](#)
- 6.3.4.13 [phosphoribosylamine-glycine ligase](#)
- 6.3.4.14 [Biotin carboxylase](#)
- 6.3.4.15 [Biotin-\[acetyl-CoA-carboxylase\] ligase](#)
- 6.3.4.16 [Carbamoyl-phosphate synthase \(ammonia\)](#)
- 6.3.4.17 [Formate-dihydrofolate ligase](#)
- 6.3.4.18 [5-\(carboxyamino\)imidazole ribonucleotide synthase](#)
- 6.3.5.1 [NAD<sup>+</sup> synthase \(glutamine-hydrolysing\)](#)
- 6.3.5.2 [GMP synthase \(glutamine-hydrolysing\)](#)
- 6.3.5.3 [Phosphoribosylformylglycinamide synthase](#)
- 6.3.5.4 [Asparagine synthase \(glutamine-hydrolysing\)](#)

- 6.3.5.5 [Carbamoyl-phosphate synthase \(glutamine-hydrolysing\)](#)
- 6.3.5.6 [asparaginyl-tRNA synthase \(glutamine-hydrolysing\)](#)
- 6.3.5.7 [glutaminyl-tRNA synthase \(glutamine-hydrolysing\)](#)
- 6.3.5.8 [aminodeoxychorismate synthase](#)
- 6.3.5.9 [hydrogenobyrinic acid a,c-diamide synthase \(glutamine-hydrolysing\)](#)
- 6.3.5.10 [adenosylcobyrinic acid synthase \(glutamine-hydrolysing\)](#)
- 6.4.1.1 [Pyruvate carboxylase](#)
- 6.4.1.2 [Acetyl-CoA carboxylase](#)
- 6.4.1.3 [Propionyl-CoA carboxylase](#)
- 6.4.1.4 [Methylcrotonoyl-CoA carboxylase](#)
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- 6.4.1.6 [acetone carboxylase](#)
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- 6.5.1.1 [DNA ligase \(ATP\)](#)
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- 6.5.1.3 [RNA ligase \(ATP\)](#)
- 6.5.1.4 [RNA-3'-phosphate cyclase](#)
- 6.6.1.1 [magnesium chelatase](#)
- 6.6.1.2 [cobaltochelatase](#)