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| --- | --- | --- | --- | --- | --- | --- | --- |
| Sr No. | Metabolites Name | KEGG ID | HMDB | Super\_Pathway | Sub-Pathway | Formula | Alternative name |
| 1 | ()11(12)-EpETE | N/A | HMDB04673 | Eicosanoid | Arachidonic Acid Metabolism | C20H30O3 |  |
| 2 | (2-AMINOETHYL)PHOSPHONATE | C03557 | HMDB11747 | Phosphonic acid | Phosphonate and phosphinate metabolism | C2H8NO3P | Ciliatine |
| 3 | (S)-1-PHENYLETHANOL | [C11348](https://www.genome.jp/entry/C11348) | N/A |  | Ethylbenzene degradation | C8H10O |  |
| 4 | (S)-DIHYDROOROTATE | [C00337](https://www.genome.jp/entry/C00337) | HMDB00528 | Amino Acid Derivative | Pyrimidine metabolism | C5H6N2O4 | 4,5-Dihydroorotic acid |
| 5 | (S)-NICOTINE | [C00745](https://www.genome.jp/entry/C00745) | HMDB01010 | Alkaloid Derivative | Nicotine metabolism pathway | C10H14N2 | Nicotine imine |
| 6 | 1,25-Dihydroxyvitamin D3 | C01673 | HMDB01903 | Cofactors and Vitamins | Vitamin D analog; Steroid biosynthesis | C27H44O3 | Calcitriol |
| 7 | 1,2-DIDECANOYL-SN-GLYCERO-3-PHOSPHOCHOLINE | N/A |  |  |  | C28H56NO8P |  |
| 8 | 10-HYDROXYDECANOATE | C02774 | HMDB0244272 | Lipid |  | C10H20O3 | 10-Hydroxydecanoic acid |
| 9 | 11-dehydro Thromboxane B2 | [C05964](https://www.genome.jp/entry/C05964) | [HMDB04242](http://www.hmdb.ca/metabolites/HMDB04242) | Eicosanoid | Arachidonic Acid Metabolism | C20H32O6 |  |
| 10 | 1-AMINOCYCLOPROPANE-1-CARBOXYLATE | C01234 | [HMDB36458](http://www.hmdb.ca/metabolites/HMDB36458) | Amino Acid Derivative | Cysteine and methionine metabolism | C4H7NO2 | 1-Aminocyclopropanecarboxylic acid |
| 11 | 1-HYDROXY-2-NAPHTHOATE | [C03203](https://www.genome.jp/entry/C03203) | HMDB0243892 | Benzenoid |  | C11H8O3 |  |
| 12 | 1-METHYL-6,7-DIHYDROXY-1,2,3,4-TETRAHYDROISOQUINOLINE | N/A |  |  |  | C10H13NO2 |  |
| 13 | 1-METHYLADENOSINE | [C02494](https://www.genome.jp/entry/C02494) | HMDB03331 | Nucleoside |  | C11H15N5O4 | M1A |
| 14 | 1-OLEOYL-RAC-GLYCEROL | N/A |  |  |  | C21H40O4 |  |
| 15 | 2,4-DIHYDROXYPTERIDINE | [C03212](https://www.genome.jp/entry/C03212) | HMDB0254198 |  |  | C6H4N4O2 | Lumazine |
| 16 | 2,4-DIHYDROXYPYRIMIDINE-5-CARBOXYLIC ACID | C03030 | N/A |  |  | C5H4N2O4 |  |
| 17 | 2,6-DIHYDROXYPYRIDINE | [C03056](https://www.genome.jp/entry/C03056) | N/A |  |  | C5H5NO2 |  |
| 18 | 2-ACETAMIDO-2-DEOXY-BETA-D-GLUCOSYLAMINE | N/A |  |  |  | C8H16N2O5 |  |
| 19 | 2-AMINOPHENOL | [C01987](https://www.genome.jp/entry/C01987) | N/A |  |  | C6H7NO |  |
| 20 | 2'-DEOXYADENOSINE 5'-TRIPHOSPHATE | [C00131](https://www.genome.jp/entry/C00131) | [HMDB01532](http://www.hmdb.ca/metabolites/HMDB01532) | Nucleotide | Purine Metabolism; Nucleotide metabolsim | C10H16N5O12P3 | Deoxyadenosine triphosphate, dATP |
| 21 | 2'-DEOXYCYTIDINE 5'-DIPHOSPHATE | [C00705](https://www.genome.jp/entry/C00705) | [HMDB01245](http://www.hmdb.ca/metabolites/HMDB01245) | Nucleotide | Pyrimidine Metabolism; Nucleotide Metabolis | C9H15N3O10P2 | dCDP |
| 22 | 2'-DEOXYCYTIDINE 5'-MONOPHOSPHATE | [C00239](https://www.genome.jp/entry/C00239) | HMDB01202 | Nucleotide | Pyrimidine Metabolism; Nucleotide Metabolis | C9H14N3O7P | dCMP |
| 23 | 2-DEOXY-D-GLUCOSE | C00586 | HMDB0062477 | Monosaccharide |  | C6H12O5 | 2-Deoxyglucose |
| 24 | 2'-DEOXYGUANOSINE | [C00330](https://www.genome.jp/entry/C00330) | HMDB00085 | Nucleoside | Purine Metabolism; Nucleotide metabolsim | C4H7NOS | Deoxyguanosine, dG |
| 25 | 2'-DEOXYGUANOSINE 5'-MONOPHOSPHATE | [C00362](https://www.genome.jp/entry/C00362) | [HMDB01044](http://www.hmdb.ca/metabolites/HMDB01044) | Nucleotide | Purine Metabolism; Nucleotide metabolsim | C10H14N5O7P | dGMP |
| 26 | 2'-DEOXYGUANOSINE 5'-TRIPHOSPHATE | [C00286](https://www.genome.jp/entry/C00286) | [HMDB01440](http://www.hmdb.ca/metabolites/HMDB01440) | Nucleotide | Purine Metabolism; Nucleotide metabolsim | C10H16N5O13P3 | dGTP |
| 27 | 2'-DEOXYURIDINE 5'-MONO-PHOS-PHATE | C00365 | HMDB0001409 | Nucleotide | Pyrimidine Metabolism; Nucleotide Metabolis | C9H13N2O8P | dUMP |
| 28 | 2-HYDROXY-4-(METHYLTHIO)BUTYRIC ACID | N/A | HMDB0037115 | Lipid |  | C5H10O3S |  |
| 29 | 2-HYDROXYBUTYRIC ACID | C05984 | [HMDB00008](http://www.hmdb.ca/metabolites/HMDB00008) | Lipid | Propanoate metabolism | C4H8O3 |  |
| 30 | 2-HYDROXYPYRIDINE | [C02502](https://www.genome.jp/entry/C02502) | [HMDB13751](http://www.hmdb.ca/metabolites/HMDB13751) | Pyridine Derivative |  | C5H5NO |  |
| 31 | 2-METHYLGLUTARIC ACID | N/A | HMDB0000422 | Lipid |  | C6H10O4 |  |
| 32 | 2-METHYLPROPANAL OXIME | C03219 | N/A |  | Cyanoamino acid metabolism | C4H9NO |  |
| 33 | 2-METHYLPROPANOATE | [C02632](https://www.genome.jp/entry/C02632) | HMDB01873 | Lipid | Short Chain Fatty Acid | C4H8O2 | Isobutyric acid |
| 34 | 2-OXOBUTANOATE | [C00109](https://www.genome.jp/entry/C00109) | HMDB00005 | Keto Acid Derivative | Glycine, serine, cysteine, valine, methionine and threonine metabolism; Propanoate Metabolism | C4H6O3 |  |
| 35 | 3-(2-HYDROXYPHENYL)PROPANOATE | [C01198](https://www.genome.jp/entry/C01198) | [HMDB33752](http://www.hmdb.ca/metabolites/HMDB33752) |  | Phenylalanine metabolism | C9H10O3 | Melilotate |
| 36 | 3-(4-HYDROXYPHENYL)LACTATE | C03672 | [HMDB0000755](http://www.hmdb.ca/metabolites/HMDB0000755) | Amino Acid | Tyrosine Metabolism | C9H10O4 |  |
| 37 | 3-(4-HYDROXYPHENYL)PYRUVATE | C01179 | [HMDB00707](http://www.hmdb.ca/metabolites/HMDB00707) | Benzenoid | Tyrosine Metabolism | C9H8O4 |  |
| 38 | 3,3',5'-TRIIODOTHYRONINE | C07639 | HMDB0060074 | Amino Acid Derivative | Thyroid Hormone Signaling Pathway | C15H12I3NO4 | Reverse-triiodthyronine |
| 39 | 3,4-DIHYDROXYBENZOATE | [C00230](https://www.genome.jp/entry/C00230) | HMDB01856 | Benzenoid | Flavonoid | C7H6O4 | Protocatechuic acid |
| 40 | 3,4-DIHYDROXY-L-PHENYLALANINE | C00355 | HMDB00181 | Amino Acid Derivative | Tyrosine Metabolism | C9H11NO4 | L-DOPA; DOPA |
| 41 | 3,4-DIHYDROXYPHENYL GLYCOL | C05576 | HMDB00318 | Cathecol | Tyrosine Metabolism | C8H10O4 | DHPG |
| 42 | 3,4-DIHYDROXYPHENYLACETATE | C01161 | HMDB01336 | Cathecol | Tyrosine Metabolism; Dopamine metabolite | C8H8O4 | DOPAC |
| 43 | 3,5-DIIODO-L-THYRONINE | N/A | HMDB0000582 | Amino Acid Derivative |  | C15H13I2NO4 |  |
| 44 | 3,5-DIIODO-L-TYROSINE | C01060 | [HMDB03474](http://www.hmdb.ca/metabolites/HMDB03474) | Amino Acid Derivative | Tyrosine Metabolism | C9H9I2NO3 |  |
| 45 | 3-ALPHA,11-BETA,17-ALPHA,21-TETRAHYDROXY- 5-ALPHA-PREGNAN-20-ONE | C05472 | [HMDB00949](http://www.hmdb.ca/metabolites/HMDB00949) | Steroid | Steroid Hormone Biosynthesis | C21H34O5 | Tetrahydrocortisol |
| 46 | 3ALPHA-HYDROXY-5BETA-CHOLANATE | C03990 | HMDB0000761 | Bile Acid; Lipid |  | C24H40O3 | Lithocholic acid |
| 47 | 3-AMINO-4-HYDROXYBENZOIC ACID | C12115 | HMDB0304941 | Benzenoid |  | C7H7NO3 | 3,4-AHBA |
| 48 | 3-AMINO-5-HYDROXYBENZOIC ACID | C12107 | HMDB0304942 | Benzenoid |  | C7H7NO3 |  |
| 49 | 3-DEHYDROSHIKIMATE | C02637 | HMDB0304122 |  |  | C7H8O5 |  |
| 50 | 3-HYDROXY-3-METHYLGLUTARATE | C03761 | HMDB00355 | Lipid |  | C6H10O5 |  |
| 51 | 3-HYDROXYANTHRANILATE | C00632 | HMDB01476 | Benzenoid | Tryptophan Metabolism | C7H7NO3 |  |
| 52 | 3-HYDROXYBENZOATE | C00587 | HMDB02466 | Benzenoid | Phenylalanine, tyrosine and tryptophan biosynthesis | C7H6O3 |  |
| 53 | 3-HYDROXYBUTANOIC ACID | C01089 | HMDB0000011 | Lipid | Ketone Body Metabolism; Butanoate Metabolism | C4H8O3 |  |
| 54 | 3-HYDROXYPHENYLACETATE | C05593 | HMDB00440 | Benzenoid | Tyrosine Metabolism; Phenylalanine Metabolism | C8H8O3 |  |
| 55 | 3-METHOXY-4-HYDROXYMANDELATE | C05584 | HMDB00291 | Benzenoid | Tyrosine Metabolism | C9H10O5 | Vanillylmandelic acid |
| 56 | 3-METHOXY-L-TYROSINE | N/A |  |  |  | C10H13NO4 |  |
| 57 | 3-METHOXYTYRAMINE | C05587 | [HMDB00022](http://www.hmdb.ca/metabolites/HMDB00022) | Benzenoid | Tyrosine Metabolism | C9H13NO2 |  |
| 58 | 3-METHYL-2-OXINDOLE | C02366 | HMDB0304943 |  |  | C9H9NO | 3-Methyloxindole |
| 59 | 3-METHYLADENINE | C00913 | HMDB11600 | Purine Derivative |  | C6H7N5 |  |
| 60 | 3-METHYLCROTONYL-COA | C03069 | HMDB01493 | Lipid | Valine, leucine and isoleucine degradation | C26H42N7O17P3S |  |
| 61 | 3-METHYLGLUTARIC ACID | N/A | HMDB00752 | Lipid |  | C6H10O4 | Methylglutaric acid |
| 62 | 3-METHYLHISTAMINE | N/A | HMDB0001861 |  |  | C6H11N3 |  |
| 63 | 3-NITRO-L-TYROSINE | N/A | HMDB0001904 | Amino Acid Derivative |  | C9H10N2O5 | 3-Nitrotyrosine |
| 64 | 3-SULFINO-L-ALANINE | C00606 | HMDB00996 | Amino Acid Derivative | Cysteine and methionine metabolism | C3H7NO4S |  |
| 65 | 3-UREIDOPROPIONATE | [C02642](https://www.genome.jp/dbget-bin/www_bget?C02642) | [HMDB0000026](http://www.hmdb.ca/metabolites/HMDB0000026) | Nucleotide | Pyrimidine Metabolism; Uracil containing | C4H8N2O3 | Ureidopropionic acid |
| 66 | 4-ACETAMIDOBUTANOATE | C02946 | HMDB03681 | Amino Acid Derivative | Arginine and proline metabolism | C6H11NO3 | p-Aminobenzoic acid |
| 67 | 4-AMINOBENZOATE | C00568 | HMDB01392 | Benzenoid | Xenobiotic | C7H7NO2 |  |
| 68 | 4-COUMARATE | C00811 | HMDB02035 | Phytochemical/Xenobiotic | Tyrosine Metabolism | C9H8O3 | 4-Hydroxycinnamic acid |
| 69 | 4-GUANIDINOBUTANOATE | C01035 | [HMDB0003464](http://www.hmdb.ca/metabolites/HMDB0003464) | Amino Acid | Guanidino and Acetamido Metabolism | C5H11N3O2 |  |
| 70 | 4-HYDROXY-2-QUINOLINECARBOXYLIC ACID | C01717 | HMDB00715 |  | Kynurenine Metabolism; Tryptophan metabolism | C10H7NO3 | Kynurenic Acid |
| 71 | 4-HYDROXY-3-METHOXYPHENYLGLYCOL | C05594 | HMDB0001490 | Benzenoid | Tyrosine metabolism | C9H12O4 | Vanylglycol |
| 72 | 4-HYDROXYBENZOATE | C00156 | HMDB00500 | Benzenoid |  | C7H6O3 | 4-Hydroxybenzoic acid |
| 73 | 4-HYDROXY-L-PHENYLGLYCINE | N/A |  |  |  | C8H9NO3 |  |
| 74 | 4-HYDROXYPROLINE | C01157 | [HMDB0000725](http://www.hmdb.ca/metabolites/HMDB0000725) | Amino Acid Derivative | Urea cycle; Arginine and Proline Metabolism | C5H9NO3 |  |
| 75 | 4-IMIDAZOLEACETIC ACID | C02835 | [HMDB0002024](http://www.hmdb.ca/metabolites/HMDB0002024) | Amino Acid | Histidine Metabolism | C5H6N2O2 | Imidazoleacetic acid |
| 76 | 4-METHYL-2-OXO-PENTANOIC ACID | C00233 | HMDB0000695 | Keto Acid Derivative | Valine, leucine and isoleucine degradation; a neurotoxin and a metabotoxin | C6H10O3 | Ketoleucine |
| 77 | 4-PYRIDOXATE | C00847 | HMDB00017 | Pyridine Derivative | Vitamin B6 metabolism | C8H9NO4 |  |
| 78 | 5,6-DIHYDROURACIL | C00429 | HMDB00076 | Pyrimidine Derivative | Pyrimidine metabolism | C4H6N2O2 | Dihydrouracil |
| 79 | 5-AMINOIMIDAZOLE-4-CARBOXAMIDE-1-BETA-D-RIBOFURANOSYL 5'-MONOPHOSPHATE | C04677 | HMDB0001517 |  | Purine metabolism; Histidine metabolism | C9H15N4O8P | AICAR |
| 80 | 5-AMINOLEVULINIC ACID | C00430 | HMDB0001149 | Amino Acid Derivative | Glycine, serine and threonine metabolism | C5H9NO3 |  |
| 81 | 5-AMINOPENTANOATE | C00431 | HMDB03355 | Amino Acid Derivative | Arginine and proline metabolism; Lysine degradation | C5H11NO2 | 5-Aminopentanoic acid |
| 82 | 5-HYDROXYINDOLEACETATE | C05635 | HMDB00763 |  | Tryptophan metabolism; Serotonin metabolite | C10H9NO3 | 5-Hydroxyindoleacetic acid; 5-HIAA |
| 83 | 5-HYDROXY-L-TRYPTOPHAN | C00643 | HMDB00472 | Tryptamine Derivative | Tryptophan metabolism; Serotonin metabolite | C11H12N2O3 |  |
| 84 | 5-METHYLCYTOSINE HYDROCLORIDE | C02376 | HMDB0002894 | Nucleotide Derivative | Pyrimidine metabolism | C5H7N3O | 5-Methylcytosine |
| 85 | 5'-METHYLTHIOADENOSINE | C00170 | HMDB01173 |  | Cysteine and methionine metabolism | C11H15N5O3S |  |
| 86 | 5-OXO-PROLINE (Pyroglutamic acid) | C01879 | [HMDB0000267](http://www.hmdb.ca/metabolites/HMDB0000267) | Amino Acid Derivative | Glutathione Metabolism | C5H7NO3 | Pyroglutamic acid |
| 87 | 5-VALEROLACTONE | C02240 | HMDB0250981 |  |  | C5H8O2 | delta-Valerolactone |
| 88 | 6-HYDROXYNICOTINATE | C01020 | HMDB02658 | Pyridine Derivative | Nicotinate and nicotinamide metabolism | C6H5NO3 |  |
| 89 | 6-PHOSPHOGLUCONIC ACID | C00345 | HMDB0001316 | Carbohydrate | Pentose Phosphate Pathway | C6H13O10P |  |
| 90 | ACETOACETATE | C00164 | HMDB0000060 | Short-chain keto acid | Ketone body metabolism /Ketogenesis | C4H6O3 | Acetoacetic acid |
| 91 | ACETIC ACID | C00033 | HMDB0000042 | Straight-chain fatty acid | Ethanol Metabolism; acteyl-CoA conversion | C2H4O2 | Acetate, Vinegar |
| 92 | ACETYL COA | C00024 | HMDB0001206 | Energy | TCA Cycle | C23H38N7O17P3S | Acetyl coenzyme A |
| 93 | ACETOIN | [C00466](https://www.genome.jp/dbget-bin/www_bget?cpd:C00466) | HMDB0003243 |  |  | C4H8O2 | Dimethylketol, 2-Acetoin |
| 94 | ADENINE | [C00147](https://www.genome.jp/dbget-bin/www_bget?C00147) | [HMDB0000034](http://www.hmdb.ca/metabolites/HMDB0000034) | Purine | Purine Metabolism; Adenine containing | C5H5N5 |  |
| 95 | ADENOSINE | C00212 | HMDB0000050 | Nucleoside | Purine Metabolism; Nucleotide metabolsim | C10H13N5O4 |  |
| 96 | ADENOSINE 2',3'-CYCLIC MONOPHOSPHATE | C02353 | HMDB0011616 | Cyclic nucleotide | Purine Metabolism | C10H12N5O6P | Cyclic 2',3'-AMP |
| 97 | ADPR | C00301 | HMDB0001178 | Cofactors and Vitamins | Nicotinate and Nicotinamide Metabolism | C15H23N5O14P2 | Adenosine diphosphoribose |
| 98 | ATP | C00002 | HMDB0000538 | Energy | Purine Metabolism; Adenine containing | C10H16N5O13P3 | Adenosine 5'-triphosphate |
| 99 | cAMP | C00575 | HMDB0000058 | Cyclic nucleotide | Purine metabolism; Adenine containing; Secondary messenger | C10H12N5O6P | Adenosine cyclic monophosphate, cyclic AMP |
| 100 | ADP | [C00008](https://www.genome.jp/dbget-bin/www_bget?C00008) | [HMDB0001341](http://www.hmdb.ca/metabolites/HMDB0001341) | Nucleotide | Purine Metabolism; Adenine containing | C10H15N5O10P2 | Adenosine diphosphate |
| 101 | AMP | [C00020](https://www.genome.jp/dbget-bin/www_bget?C00020) | [HMDB0000045](http://www.hmdb.ca/metabolites/HMDB0000045) | Nucleotide | Purine Metabolism; Adenine containing | C10H14N5O7P | Adenosine monophosphate |
| 102 | ADENOSINE-5'-DIPHOSPHOGLUCOSE | [C00498](https://www.genome.jp/dbget-bin/www_bget?C00498) | HMDB0006557 | Nucleotide sugar | *Adenine containing* | C16H25N5O15P2 | ADPG, ADP-glucose |
| 103 | Adenylosuccinic acid | [C03794](https://www.genome.jp/dbget-bin/www_bget?C03794) | HMDB0000536 | Nucleotide | Purine Metabolism; Adenine containing | C14H18N5O11P |  |
| 104 | ADIPIC ACID | C06104 | HMDB0000448 | Fatty acid |  | C6H10O4 | Hexanedioic acid |
| 105 | ALLANTOIN | C02350 | HMDB0000462 | Nucleotide | Purine Metabolism; (Hypo)Xanthine/Inosine containing | C4H6N4O3 |  |
| 106 | ALPHA-AMINOADIPATE | C00956 | [HMDB0000510](http://www.hmdb.ca/metabolites/HMDB0000510) | Amino Acid | Lysine Metabolism | C6H11NO4 |  |
| 107 | ALPHA-D-GLUCOSE 1-PHOSPHATE | C00103 | HMDB0001586 | Monosaccharide phosphate | Glycolysis; Pentose phosphate pathway | C6H13O9P | Glucose 1-phosphate |
| 108 | ALPHA-KETOGLUTARIC ACID | C00026 | HMDB0000208 | Energy | TCA Cycle | C5H6O5 | aKG |
| 109 | ALPHA-TOCOPHEROL | C02477 | HMDB0001893 | Vitamin | Vitamin E Metabolism | C29H50O2 | One form of Vitamin E |
| 110 | AMINOISOBUTANOATE | C03284 | HMDB0003911 | *Lipid* |  | C4H9NO2 | L-3-Aminoisobutanoate |
| 111 | Anadamide | C11695 | HMDB0004080 | Endocannabinoid | Endocannabinoid signaling | C22H37NO2 | Arachidonoylethanolamide (AEA) |
| 112 | ANILINE-2-SULFONIC ACID | C06333 | HMDB0304940 |  | *Benzoate degradation* | C6H7NO3S | Orthanilic acid |
| 113 | ANTHRANILATE | C00108 | HMDB01123 | *Amino Acid* | Tryptophan Metabolism | C7H7NO2 | 2-Aminobenzoic acid, Anthranilic acid |
| 114 | ARABINOSE | C02479 | HMDB00646 | *Saccharide* | *Sucrose inhibitor* | C5H10O5 | L-Arabinose |
| 115 | ARACHIDIC ACID | C06425 | HMDB02212 | Fatty acid |  | C20H40O2 | Icosanoic acid |
| 116 | ASPARTIC ACID | C00049 | HMDB0000191 | Amino Acid | Alanine and Aspartate Metabolism | C4H7NO4 |  |
| 117 | AZELAIC ACID | [C08261](https://www.genome.jp/dbget-bin/www_bget?cpd+C08261) | HMDB00784 | Fatty acid | Tyrosinase inhibitor | C9H16O4 | Aza |
| 118 | BENZOATE | C00180 | HMDB0001870 | Xenobiotics | Benzoate Metabolism | C7H5NaO2 |  |
| 119 | BENZYLAMINE | C15562 | HMDB0033871 |  |  | C7H9N |  |
| 120 | BETAINE | C00719 | [HMDB0000043](http://www.hmdb.ca/metabolites/HMDB0000043) | Amino Acid | Glycine, Serine and Threonine Metabolism | C5H11NO2 |  |
| 121 | BILIVERDIN | C00500 | HMDB0001008 |  | Porphyrin Metabolism, Heme metabolism | C33H34N4O6 |  |
| 122 | BIOTIN | C00120 | HMDB00030 | Vitamin | Biotin Metabolism | C10H16N2O3S | Vitamin B7, Vitamin H |
| 123 | BIS(2-ETHYLHEXYL)PHTHALATE | [C03690](https://www.genome.jp/dbget-bin/www_bget?C03690) | HMDB0249243 | *Xenobiotics* | *Endocrine disrupting compound* | C24H38O4 | DEHP |
| 124 | BUTANAL | C01412 | HMDB03543 |  | Butanoate metabolism | C4H8O | Butyral, Butyraldehyde |
| 125 | BUTANOATE/isobutyric acid | C00246 | [HMDB0000039](http://www.hmdb.ca/metabolites/HMDB0000039) | Lipid | Short Chain Fatty Acid | C4H8O2 |  |
| 126 | CAFFEATE | C01481 | HMDB01964 | *Xenobiotics* | *Plant metabolite* | C9H8O4 | Caffeic acid |
| 127 | CAFFEINE | C07481 | HMDB01847 | Xenobiotics | Caffeine metabolism | C8H10N4O2 |  |
| 128 | CAPRYLIC ACID | C06423 | HMDB00482 | Lipid | Fatty acid synthesis | C8H16O2 | Octanoic acid |
| 129 | CARNOSINE | C00386 | HMDB00033 | Peptide | Histidine Metabolism | C9H14N4O3 |  |
| 130 | CHENODEOXYCHOLATE | C02528 | HMDB00518 | Bile acid | Primary bile acid biosynthesis | C24H40O4 | Chenodeoxycholic acid |
| 131 | CHOLATE | C00695 | HMDB00619 |  |  | C24H40O5 |  |
| 132 | CIS-ACONITATE | C00417 | HMDB0000072 | Energy | TCA Cycle | C6H6O6 |  |
| 133 | CITRAMALATE | C00815 | HMDB0000426 |  |  | C5H8O5 |  |
| 134 | CITRULLINE | C00327 | HMDB00904 |  |  | C6H13N3O3 |  |
| 135 | CMP | [C00055](https://www.genome.jp/dbget-bin/www_bget?C00055) | [HMDB0000095](http://www.hmdb.ca/metabolites/HMDB0000095) | Nucleotide | Pyrimidine Metabolism, Cytidine containing | C9H14N3O8P |  |
| 136 | COENZYME A | C00010 | HMDB0001423 | Cofactors and Vitamins | Pantothenate and CoA Metabolism | C21H36N7O16P3S |  |
| 137 | CORTICOSTERONE | C02140 | HMDB01547 | Steroid | Steroid hormone biosynthesis; Glucocorticoid | C21H30O4 |  |
| 138 | CORTISOL | C00735 | HMDB00063 | Steroid | Steroid hormone biosynthesis; Glucocorticoid | C21H30O5 |  |
| 139 | CORTISOL 21-ACETATE | C02821 | N/A | Steroid | Synthetic form of hydrochortisone | C23H32O6 | Hydrocortisone acetate |
| 140 | CORTISONE | C00762 | HMDB0002802 | Steroid | Steroid hormone biosynthesis; Glucocorticoid | C21H28O5 |  |
| 141 | CREATINE | C00300 | [HMDB0000064](http://www.hmdb.ca/metabolites/HMDB0000064) | Amino Acid Derivative | Creatine Metabolism; Glycine, serine and threonine metabolism; Arginine and proline metabolism | C4H9N3O2 |  |
| 142 | CREATINE PHOSPHATE | C02305 | HMDB0001511 | Amino Acid Derivative | Arginine and proline metabolism | C4H10N3O5P | Phosphocreatine |
| 143 | CREATININE | C00791 | [HMDB0000562](http://www.hmdb.ca/metabolites/HMDB0000562) | Amino Acid Derivative | Creatine Metabolism; Arginine and proline metabolism | C4H7N3O |  |
| 144 | Cyclic adenosine diphosphate-ribose(cADPR) | C13050 | HMDB0249529 | Cyclic nucleotide |  | C15H21N5O13P2 | Cyclic ADP-ribose |
| 145 | CYS-GLY | C01419 | HMDB00078 |  | Glutathione metabolism | C5H10N2O3S | Cysteinylglycine |
| 146 | CYSTEAMINE | C01678 | HMDB0002991 |  |  | C2H7NS |  |
| 147 | CYTIDINE | C00475 | [HMDB0000089](http://www.hmdb.ca/metabolites/HMDB0000089) | Nucleotide | Pyrimidine Metabolism; Cytidine containing | C9H13N3O5 |  |
| 148 | CYTIDINE 2',3'-CYCLIC MONO-PHOS-PHATE | C00127 | HMDB0011691 |  |  | C9H12N3O7P |  |
| 149 | CDP | C00112 | [HMDB01546](http://www.hmdb.ca/metabolites/HMDB01546) | Nucleotide | Pyrimidine Metabolism; Cytidine containing | C9H15N3O11P2 | CYTIDINE 5'-DIPHOSPHATE |
| 150 | CYTIDINE 5'-DIPHOSPHOCHOLINE | C00307 | [HMDB01413](http://www.hmdb.ca/metabolites/HMDB01413) |  |  | C14H26N4O11P2 |  |
| 151 | CTP | C00063 | HMDB0000082 | Nucleotide | Pyrimidine Metabolism; Cytidine containing | C9H16N3O14P3 | CYTIDINE 5'-TRIPHOSPHATE |
| 152 | CYTOSINE | C00380 | [HMDB0000630](http://www.hmdb.ca/metabolites/HMDB0000630) | Nucleotide | Pyrimidine Metabolism; Cytidine containing | C4H5N3O |  |
| 153 | D-(-)-3-PHOSPHOGLYCERIC ACID | C00597 | [HMDB00807](http://www.hmdb.ca/metabolites/HMDB00807) |  |  | C3H7O7P |  |
| 154 | D-(+)-RAFFINOSE | C00492 | HMDB0003213 |  |  | C18H32O16 |  |
| 155 | DAMP | C00360 | HMDB00905 |  |  | C10H14N5O6P |  |
| 156 | DECANOATE | C01571 | [HMDB00511](http://www.hmdb.ca/metabolites/HMDB00511) |  |  | C10H20O2 |  |
| 157 | DEHYDROASCORBATE | C05422 | HMDB0001264 | Cofactors and Vitamins | Ascorbate and Aldarate Metabolism | C6H6O6 |  |
| 158 | DEHYDRO-L-(+)-ASCORBIC ACID DIMER | N/A | N/A |  |  | C12H12O12 |  |
| 159 | DEOXYCARNITINE | C01181 | HMDB0001161 | Lipid | Carnitine Metabolism | C7H15NO2 |  |
| 160 | DEOXYCORTICOSTERONE ACETATE | C14554 | N/A |  |  | C23H32O4 |  |
| 161 | DEOXYCYTIDINE | C00881 | [HMDB0000014](http://www.hmdb.ca/metabolites/HMDB0000014) | Nucleotide | Pyrimidine Metabolism; Cytidine containing | C9H13N3O4 |  |
| 162 | DEOXYRIBOSE | C01801 | HMDB03224 |  |  | C5H10O4 |  |
| 163 | DEOXYURIDINE | C00526 | [HMDB0000012](http://www.hmdb.ca/metabolites/HMDB0000012) | Nucleotide | Pyrimidine Metabolism; Uracil containing | C9H12N2O5 |  |
| 164 | D-Erythrose 4-phosphate | C00279 | HMDB0001321 |  |  | C4H9O7P |  |
| 165 | DESMOSTEROL | C01802 | HMDB0002719 | Lipid | Steroid biosynthesis | C27H44O | 24-Dehydrocholesterol |
| 166 | DETHIOBIOTIN | C01909 | HMDB03581 | Fatty acid | Medium chain fatty acid; Biotin metabolism | C10H18N2O3 | Desthiobiotin |
| 167 | D-FRUCTOSE 6-PHOSPHATE | C00085 | [HMDB00124](http://www.hmdb.ca/metabolites/HMDB00124) | Carbohydrate | Glycolysis; Gluconeogenesis, Pentose phosphate metabolism | C6H13O9P | D-Fructose 6-phosphoric acid, Neuberg ester |
| 168 | D-GLUCONO-1,5-LACTONE | C00198 | HMDB00150 |  | Pentose Phosphate Pathway | C6H10O6 | Gluconolactone, GDL |
| 169 | D-GLUCOSAMINE 6-PHOSPHATE | C00352 | HMDB0001254 | Carbohydrate | Glutamate Metabolism, insulin resistance | C6H14NO8P |  |
| 170 | D-GLUCOSAMINE 6-SULFATE | C04132 | HMDB0000592 |  |  | C6H13NO8S |  |
| 171 | D-GLUCOSE-6-PHOSPHATE | [C00668](https://www.genome.jp/dbget-bin/www_bget?C00668) | HMDB0001401 | Carbohydrate | Glycolysis, Pentos phosphate pathway | C6H13O9P | Glucose 6-phosphate |
| 172 | D-GLUCURONIC ACID | [C00191](https://www.genome.jp/dbget-bin/www_bget?C00191) | [HMDB00127](http://www.hmdb.ca/metabolites/HMDB00127) | Carbohydrate |  | C6H10O7 | Glucuronate |
| 173 | D-GLUCURONOLACTONE | C02670 | HMDB06355 |  | Ascorbate and aldarate metabolism | C6H8O6 | D-Glucurono-6,3-lactone |
| 174 | DIACETYL | C00741 | [HMDB03407](http://www.hmdb.ca/metabolites/HMDB03407) | Lipid | Butanoate metabolism | C4H6O2 | 2,3-butadione |
|  | DIETHANOLAMINE | C06772 | HMDB04437 | Xenobiotic |  | C4H11NO2 |  |
| 175 | DIETHYL SUCCINATE | N/A | HMDB0033838 | Fatty acid ester |  | C8H14O4 | Diethyl succinic acid |
| 176 | DHAP | [C00111](https://www.genome.jp/dbget-bin/www_bget?C00111) | [HMDB0001473](http://www.hmdb.ca/metabolites/HMDB0001473) | Carbohydrate | Glycolysis, Gluconeogenesis, and Pyruvate Metabolism | C3H7O6P | DIHYDROXYACETONE PHOSPHATE |
| 177 | DIHYDROXYBENZOATE | [C00196](https://www.genome.jp/dbget-bin/www_bget?C00196) | [HMDB00397](http://www.hmdb.ca/metabolites/HMDB00397) | Xenobiotic | Benzoate degradation | C7H6O4 | 2,3-Dihydroxybenzoate, 2-Pyrocatechuic acid |
| 178 | DIHYDROXYMANDELIC ACID | C05580 | HMDB01866 |  | Tyrosine Metabolism | C8H8O5 | 3,4-Dihydroxymandelic acid,  3,4-Dihydroxymandelate,DOMA, DHMA |
| 179 | DIMETHYLBENZIMIDAZOLE | C03114 | HMDB03701 |  | Riboflavin Metabolism | C9H10N2 | 5,6-Dimethylbenzimidazole |
| 180 | HMG-COA |  |  | DRUG |  | C27H44N7Na2O21P3S | DL-3-HYDROXY-3-METHYLGLUTARYL COENZYME A SODIUM SALT HYDRATE |
| 181 | DL-5-HYDROXYLYSINE | C16741 | [HMDB00450](http://www.hmdb.ca/metabolites/HMDB00450) | Amino Acid |  | C6H14N2O3 | 5-Hydroxylysine |
| 182 | DL-NORMETANEPHRINE | C05589 | HMDB0000819 | Catecholamine | Tyrosine Metabolism | C9H13NO3 | Normetanephrine |
| 183 | D-LYXOSE | [C00476](https://www.genome.jp/dbget-bin/www_bget?C00476) | N/A | Monosaccharide |  | C5H10O5 |  |
| 184 | D-MANNOSE 6-PHOSPHATE | [C00275](https://www.genome.jp/dbget-bin/www_bget?C00275) | [HMDB01078](http://www.hmdb.ca/metabolites/HMDB01078) |  | Fructose and mannose metabolism | C6H13O9P | M6P |
| 185 | DOCOSAHEXAENOIC ACID | C06429 | [HMDB0002183](http://www.hmdb.ca/metabolites/HMDB0002183) | Lipid | Long Chain Polyunsaturated Fatty Acid (n3 and n6) | C22H32O2 |  |
| 186 | DOPAMINE | [C03758](https://www.genome.jp/dbget-bin/www_bget?C03758) | [HMDB00073](http://www.hmdb.ca/metabolites/HMDB00073) | Catecholamine | Tyrosine Metabolism | C8H11NO2 |  |
| 187 | D-PANTOTHENIC ACID | C00864 | HMDB0000210 | Cofactors and Vitamins | Pantothenate and CoA Metabolism | C9H17NO5 |  |
| 188 | D-PSICOSE | C06468 | HMDB0250793 | Monosaccharide |  | C6H12O6 | Allulose |
| 189 | D-RIBOSE | C00121 | HMDB00283 | Monosaccharide | Pentose Phosphate Pathway | C5H10O5 | Ribose |
| 190 | D-RIBOSE 5-PHOSPHATE/RIBULOSE 5-PHOSPHATE/XYLULOSE 5-P | C00117, C00199, C00231 | HMDB0001548, HMDB0000618, HMDB0000868 |  | Pentose Phosphate Pathway, Purine metabolism | C5H11O8P | R-5-P, Ri-5P/Ru-56P/Xu-5P |
| 191 | D-XYLOSE | C00181 | HMDB00098 | Monosaccharide |  | C5H10O5 |  |
| 192 | Eicosapentaenoic Acid | C06428 | HMDB01999 | Fatty acid |  | C20H29O2 | Icosapentaenoic acid, EPA |
| 193 | EPINEPHRINE | C00788 | HMDB00068 | Catecholamine | Tyrosine Metabolism | C9H13NO3 |  |
| 194 | ERUCIC ACID | C08316 | HMDB02068 | Fatty acid |  | C22H42O2 | cis-13-Docosenoic acid |
| 195 | ERYTHRITOL | C00503 | HMDB02994 | Sugar |  | C4H10O4 | Erythrol |
| 196 | ESTRADIOL-17ALPHA | C02537 | HMDB0000429 | Steroid | Steroid biosynthesis | C18H24O2 | 17alpha-Estradiol |
| 197 | ETHANOLAMINE | C00189 | [HMDB00149](http://www.hmdb.ca/metabolites/HMDB00149) |  | Glycerophospholipid metabolism | C2H7NO |  |
| 198 | ETHANOLAMINE PHOSPHATE | C00346 | [HMDB0000224](http://www.hmdb.ca/metabolites/HMDB0000224) | Lipid | Phospholipid Metabolism | C2H8NO4P |  |
| 199 | ETHYL 3-INDOLEACETATE | N/A | N/A |  |  | C12H13NO2 |  |
| 200 | ETHYLMALONIC ACID | C02170 | HMDB00622 | Fatty acid |  | C5H8O4 | Ethylmalonate, a-Carboxybutyrate |
| 201 | FERULATE | C01494 | HMDB0000954 | Xenobiotic |  | C10H10O4 | Ferulic acid |
| 202 | FLAVIN ADENINE DINUCLEOTIDE | C00016 | HMDB0001248 | Cofactors and Vitamins | Riboflavin Metabolism | C27H33N9O15P2 |  |
| 203 | FOLIC ACID | C00504 | HMDB0000121 | Vitamin | Folate metabolism | C19H19N7O6 | FAD, Folate |
| 204 | FORMYL-L-METHIONYL PEPTIDE | C03145 | [HMDB0001015](http://www.hmdb.ca/metabolites/HMDB0001015) | Amino Acid | Methionine, Cysteine, SAM and Taurine Metabolism | C6H11NO3S |  |
| 205 | FUMARIC ACID | C00122 | [HMDB00134](http://www.hmdb.ca/metabolites/HMDB00134) | Energy | TCA Cycle | C4H4O4 |  |
| 206 | GABA | C00334 | [HMDB0000112](http://www.hmdb.ca/metabolites/HMDB0000112) | Amino Acid | Glutamate Metabolism | C4H9NO2 |  |
| 207 | GALACTARATE | [C00879](https://www.genome.jp/dbget-bin/www_bget?C00879) | HMDB00639 | Fatty acid |  | C6H10O8 | Galactaric acid, Mucic acid |
| 208 | GALACTITOL | C01697 | HMDB00107 | Sugar | Galactose metabolism | C6H14O6 | Dulcitol |
| 209 | GAMMA-LINOLENIC ACID | C06426 | HMDB0003073 | Lipid | Long Chain Polyunsaturated Fatty Acid (n3 and n6) | C18H30O2 |  |
| 210 | GERANYL PYROPHOSPHATE | C05847 | HMDB01285 |  | Steroid biosynthesis | C10H20O7P2 | Geranyl diphosphate (GDP), Geranyl-PP |
| 211 | GLUCONIC ACID | C00257 | HMDB00625 | Monosaccharide | Pentose phosphate pathway | C6H12O7 | D-gluconate |
| 212 | GLUCOSAMINATE | C03752 | HMDB0341308 |  | Pentose phosphate pathway | C6H13NO6 | D-Glucosaminate, D-Glucosaminic acid |
| 213 | GLUCOSE/FRUCTOSE/GALACTOSE | [C00031](https://www.genome.jp/dbget-bin/www_bget?C00031) | [HMDB0000122](http://www.hmdb.ca/metabolites/HMDB0000122) | Carbohydrate | Glycolysis; Gluconeogenesis, and Pyruvate Metabolism | C6H12O6 |  |
| 214 | GLUTARIC ACID | [C00489](https://www.genome.jp/dbget-bin/www_bget?C00489) | [HMDB00661](http://www.hmdb.ca/metabolites/HMDB00661) |  | Fatty acid degradation; Lysine degradation | C5H8O4 | Pentanedioic acid, Glutarate |
| 215 | GLUTATHIONE | [C00051](https://www.genome.jp/dbget-bin/www_bget?C00051) | HMDB0000125 | Amino Acid | Glutathione Metabolism | C10H17N3O6S |  |
| 216 | GLYCERALDEHYDE | C02154 | HMDB01051 | Monosaccharide | Glycerolipid Metabolism; Fructose and Mannose metabolism | C3H6O3 | GSH, DL-Glyceraldehyde |
| 217 | GLYCERALDEHYDE 3-PHOSPHATE DIETHYL ACETAL | C00118 | HMDB0001112 |  |  | C3H7O6P |  |
| 218 | GLYCERATE | C00258 | HMDB0000139 | Carbohydrate | Glycolysis; Gluconeogenesis, and Pyruvate Metabolism | C3H6O4 |  |
| 219 | GLYCEROL PHOSPHATE | [C00623](https://www.genome.jp/dbget-bin/www_bget?C00623) | N/A |  |  | C3H9O6P |  |
| 220 | GLYCINE | C00037 | [HMDB0000123](http://www.hmdb.ca/metabolites/HMDB0000123) | Amino Acid | Glycine, Serine and Threonine Metabolism | C2H5NO2 |  |
| 221 | Glycochenodeoxycholate | C05466 | [HMDB0006898](http://www.hmdb.ca/metabolites/HMDB0006898) | Bile acid | Primary + Secondary bile acid biosynthesis; Cholesterol metabolism | C26H43NO5 | Chenodeoxyglycocholate |
| 222 | GLYCOCHOLATE | C01921 | HMDB00138 | Bile acid | Primary + Secondary bile acid biosynthesis; Cholesterol metabolism | C26H43NO6 | Glycocholic acid |
| 223 | GLYCOLATE | [C00160](https://www.genome.jp/dbget-bin/www_bget?C00160) | HMDB00115 |  |  | C2H4O3 | Glycolic acid |
| 224 | GLYOXYLIC ACID | C00048 | [HMDB0000119](http://www.hmdb.ca/metabolites/HMDB0000119) |  | Purine metabolism; Glyoxylate and dicarboxylate metabolism, Glycine, serine, threonine metabolism | C2H2O3 | Glyoxylate |
| 225 | GUANIDINOACETATE | C00581 | [HMDB0000128](http://www.hmdb.ca/metabolites/HMDB0000128) | Amino Acid | Creatine Metabolism | C3H7N3O2 |  |
| 226 | GUANINE | C00242 | HMDB00132 | Purine | Purine Metabolism; Nucleotide metabolsim | C5H5N5O |  |
| 227 | GUANOSINE | C00387 | [HMDB0000133](http://www.hmdb.ca/metabolites/HMDB0000133) | Nucleoside | Purine Metabolism; Guanine containing | C10H13N5O5 |  |
| 228 | GUANOSINE 3',5'-CYCLIC MONOPHOSPHATE | C00942 | [HMDB0001314](http://www.hmdb.ca/metabolites/HMDB0001314) | Cyclic nucleotide | Purine Metabolism; Guanine containing | C10H12N5O7P |  |
| 229 | GUANOSINE 5'-DIPHOSPHATE | [C00035](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00035) | [HMDB0001201](http://www.hmdb.ca/metabolites/HMDB0001201) | Nucleotide | Purine Metabolism; Guanine containing | C10H15N5O11P2 |  |
| 230 | GDP | C00394 | HMDB0003351 | Nucleotide | Purine Metabolism; Guanine containing | C16H25N5O16P2 | GUANOSINE 5'-DIPHOSPHOGLUCOSE |
| 231 | GMP | [C00144](https://www.genome.jp/dbget-bin/www_bget?C00144) | [HMDB0001397](http://www.hmdb.ca/metabolites/HMDB0001397) | Nucleotide | Purine Metabolism; Guanine containing | C10H14N5O8P | GUANOSINE 5'-MONOPHOSPHATE |
| 232 | GTP | C00044 | HMDB0001273 | Nucleotide | Purine Metabolism; Guanine containing | C10H16N5O14P3 | GUANOSINE 5'-TRIPHOSPHATE |
| 233 | METHYL PALMITATE | C16995 | HMDB0061859 | Fatty acid |  | C17H34O2 | Methyl hexadecanoic acid |
| 234 | HEPTANOIC ACID | [C17714](https://www.genome.jp/dbget-bin/www_bget?cpd+C17714) | HMDB00666 | Lipid | Medium Chain Fatty Acid | C7H14O2 | HEPTADECANOATE, Heptylic acid |
| 235 | Hexacosanoic acid | C21931 | HMDB02356 | Lipid | Long Chain Fatty Acid | C26H52O2 |  |
| 236 | HEXANOATE | [C01585](https://www.genome.jp/dbget-bin/www_bget?cpd+C01585) | [HMDB0000535](http://www.hmdb.ca/metabolites/HMDB0000535) | Lipid | Medium Chain Fatty Acid | C6H12O2 |  |
| 237 | HIPPURATE | C01586 | [HMDB0000714](http://www.hmdb.ca/metabolites/HMDB0000714) | Xenobiotics | Benzoate Metabolism | C9H9NO3 |  |
| 238 | HISTAMINE | [C00388](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00388) | [HMDB0000870](http://www.hmdb.ca/metabolites/HMDB0000870) | Amino Acid | Histidine Metabolism | C5H9N3 |  |
| 239 | HOMOCYSTEINE | C05330 | HMDB00742 | Amino Acid | Cystein and methionine metabolism; Sulfur metabolism | C4H9NO2S | L-Homocysteine |
| 240 | HOMOCYSTINE | [C01817](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C01817) | HMDB00575 | Amino Acid | Cystein and methionine metabolism | C8H16N2O4S2 | L-Homocystine |
| 241 | HOMOGENTISATE | C00544 | HMDB00130 |  | Phenylalanine and Tyrosine Metabolism | C8H8O4 | Melanic acid, Homogentisic acid |
| 242 | HOMOSERINE | [C00263](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00263) | HMDB00719 | Amino Acid | Glycine, Serine and Threonine Metabolism | C4H9NO3 |  |
| 243 | HOMOVANILLATE | [C05582](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C05582) | HMDB00118 | Catechol | Tyrosine Metabolism | C9H10O4 | Homovanillic acid (HVA) |
| 244 | Hydroxybenzoic acid | C00156 | [HMDB0000500](http://www.hmdb.ca/metabolites/HMDB0000500) | Xenobiotics | Benzoate Metabolism | C7H6O3 |  |
| 245 | HYDROXYPYRUVATE | [C00168](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00168) | [HMDB0001352](http://www.hmdb.ca/metabolites/HMDB0001352) |  | Glycine, Serine and Threonine metabolism | C3H4O4 | Hydroxypyruvic acid |
| 246 | HYPOTAURINE | C00519 | [HMDB0000965](http://www.hmdb.ca/metabolites/HMDB0000965) | Amino Acid | Methionine, Cysteine, SAM and Taurine Metabolism | C2H7NO2S |  |
| 247 | HYPOXANTHINE | C00262 | [HMDB0000157](http://www.hmdb.ca/metabolites/HMDB0000157) | Nucleotide | Purine Metabolism, (Hypo)Xanthine/Inosine containing | C5H4N4O |  |
| 248 | INDOLE-3-ACETALDEHYDE | [C00637](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00637) | [HMDB0001190](http://www.hmdb.ca/metabolites/HMDB0001190) |  | Tryptophan Metabolism | C10H9NO | Indoleacetaldehyde |
| 249 | INDOLE-3-ACETAMIDE | [C02693](https://www.genome.jp/dbget-bin/www_bget?C02693) | [HMDB0029739](http://www.hmdb.ca/metabolites/HMDB0029739) |  | Tryptophan Metabolism | C10H10N2O | IAM |
| 250 | INDOLE-3-ACETIC ACID | C00954 | [HMDB0000197](http://www.hmdb.ca/metabolites/HMDB0000197) | Amino Acid | Tryptophan Metabolism | C10H9NO2 |  |
| 251 | Indole-3-carboxylic acid | C19837 | HMDB03320 |  |  | C9H7NO2 | 3-carboxyindole |
| 252 | INDOLE-3-ETHANOL | [C00955](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00955) | HMDB03447 |  | Tryptophan Metabolism | C10H11NO | Tryptophol |
| 253 | INDOLE-3-PYRUVIC ACID | C00331 | [HMDB0060484](http://www.hmdb.ca/metabolites/HMDB0060484) |  | Tryptophan Metabolism | C11H9NO3 | Indolepyruvate |
| 254 | INDOXYL SULFATE | N/A | HMDB0000682 |  |  | C8H7NO4S | 3-indoxyl sulfate |
| 255 | INOSINE | C00294 | [HMDB0000195](http://www.hmdb.ca/metabolites/HMDB0000195) | Nucleotide | Purine Metabolism, (Hypo)Xanthine/Inosine containing | C10H12N4O5 |  |
| 256 | INOSINE 5'-DIPHOSPHATE | [C00104](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00104) | [HMDB0003335](http://www.hmdb.ca/metabolites/HMDB0003335) |  | Purine Metabolism | C10H14N4O11P2 | IDP |
| 257 | IMP | [C00130](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00130) | [HMDB0000175](http://www.hmdb.ca/metabolites/HMDB0000175) | Nucleotide | Purine Metabolism, (Hypo)Xanthine/Inosine containing | C10H13N4O8P | INOSINE 5'-MONOPHOSPHATE |
| 258 | INOSINE 5'-TRIPHOSPHATE | [C00081](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00081) | [HMDB0000189](http://www.hmdb.ca/metabolites/HMDB0000189) |  | Purine Metabolism | C10H15N4O14P3 | Inosine triphosphate (ITP) |
| 259 | ITACONATE | [C00490](https://www.genome.jp/dbget-bin/www_bget?C00490) | HMDB02092 | Lipid | Branched fatty acid | C5H6O4 | Itaconic acid |
| 260 | KYNURENINE | C00328 | [HMDB0000684](http://www.hmdb.ca/metabolites/HMDB0000684) | Amino Acid | Tryptophan Metabolism | C10H12N2O3 |  |
| 261 | L-2,3-DIAMINOPROPIONIC ACID | [C03401](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C03401) | [HMDB02006](http://www.hmdb.ca/metabolites/HMDB02006) | Amino Acid |  | C3H8N2O2 |  |
| 262 | L-2-PHOSPHOGLYCERIC ACID | N/A | HMDB0000362 |  | Glycolysis and Gluconeogenesis | C3H7O7P | 2-Phosphoglyceric acid |
| 263 | ALANINE | C00041 | [HMDB0000161](http://www.hmdb.ca/metabolites/HMDB0000161) | Amino Acid | Alanine and Aspartate Metabolism | C3H7NO2 |  |
|  | ANSERINE | [C01262](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C01262) | HMDB0000194 | Amino Acid | Histidine Metabolism | C10H16N4O3 |  |
| 264 | ARGININE | C00062 | [HMDB0000517](http://www.hmdb.ca/metabolites/HMDB0000517) | Amino Acid | Urea cycle; Arginine and Proline Metabolism | C6H14N4O2 |  |
| 265 | ARGININOSUCCINATE | C03406 | [HMDB00052](http://www.hmdb.ca/metabolites/HMDB00052) | Amino Acid | Arginine biosynthesis, Alanine, aspartate and glutamate metabolism | C10H18N4O6 | L-Argininosuccinic acid |
| 266 | ASPARAGINE | C00152 | [HMDB0000168](http://www.hmdb.ca/metabolites/HMDB0000168) | Amino Acid | Alanine and Aspartate Metabolism | C4H8N2O3 |  |
| 267 | LAURIC ACID | C02679 | HMDB00638 | Fatty Acid | Fatty acid biosynthesis; Prostaglandin biosynthesis | C12H24O2 | Dodecanoic acid |
| 268 | LAUROYLCARNITINE | N/A | [HMDB0002250](http://www.hmdb.ca/metabolites/HMDB0002250) |  |  | C19H37NO4 | Dodecanoylcarnitine |
| 269 | CARNITINE | C00318 | [HMDB0000062](http://www.hmdb.ca/metabolites/HMDB0000062) | Lipid | Carnitine Metabolism | C7H15NO3 |  |
| 270 | CYSTATHIONINE | [C02291](https://www.genome.jp/dbget-bin/www_bget?C02291) | [HMDB0000099](http://www.hmdb.ca/metabolites/HMDB0000099) | Amino Acid | Methionine, Cysteine, SAM and Taurine Metabolism | C7H14N2O4S |  |
| 271 | CYSTEIC ACID | C00506 | [HMDB0002757](http://www.hmdb.ca/metabolites/HMDB0002757) | Amino Acid | Cysteine and methionine metabolism, Taurine and hypotaurine metabolism | C3H7NO5S | Cysteate |
| 272 | CYSTEINE | C00097 | [HMDB0000574](http://www.hmdb.ca/metabolites/HMDB0000574) | Amino Acid | Methionine, Cysteine, SAM and Taurine Metabolism | C3H7NO2S |  |
| 273 | CYSTINE | C00491 | [HMDB0000192](http://www.hmdb.ca/metabolites/HMDB0000192) | Amino Acid | Methionine, Cysteine, SAM and Taurine Metabolism | C6H12N2O4S2 |  |
| 274 | LEUCINE | C00123 | [HMDB0000687](http://www.hmdb.ca/metabolites/HMDB0000687) | Amino Acid | Leucine, Isoleucine and Valine Metabolism | C6H13NO2 |  |
| 275 | GLUTAMATE | C00025 | [HMDB0000148](http://www.hmdb.ca/metabolites/HMDB0000148) | Amino Acid | Glutamate Metabolism | C5H9NO4 | GLUTAMIC ACID |
| 276 | GLUTAMINE | C00064 | [HMDB0000641](http://www.hmdb.ca/metabolites/HMDB0000641) | Amino Acid | Glutamate Metabolism | C5H10N2O3 |  |
| 277 | HISTIDINE | [C00135](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00135) | [HMDB0000177](http://www.hmdb.ca/metabolites/HMDB0000177) | Amino Acid | Histidine metabolism | C6H9N3O2 |  |
| 278 | HISTIDINOL | [C00860](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00860) | [HMDB0003431](http://www.hmdb.ca/metabolites/HMDB0003431) |  | Histidine Metabolism | C6H11N3O |  |
| 279 | HOMOCYSTEINE THIOLACTONE | N/A | HMDB0002287 |  |  | C4H7NOS |  |
| 280 | LINOLEATE | C01595 | HMDB0000673 | Lipid | Long Chain Polyunsaturated Fatty Acid (n3 and n6) | C18H32O2 |  |
| 281 | LIPOAMIDE | [C00248](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00248) | HMDB00962 | Lipid | TCA Cycle; Pyruvate metabolism | C8H15NOS2 |  |
| 282 | ISOLEUCINE | C00407 | [HMDB0000172](http://www.hmdb.ca/metabolites/HMDB0000172) | Amino Acid | Leucine, Isoleucine and Valine Metabolism | C6H13NO2 |  |
| 283 | LL-2,6-DIAMINOHEPTANEDIOATE | [C00666](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00666) | HMDB01370 | Amino Acid | Lysine biosynthesis, bacterial cell wall componenet | C7H14N2O4 | Diaminopimelic acid, DAPA |
| 284 | LACTATE | [C00186](https://www.genome.jp/dbget-bin/www_bget?C00186) | [HMDB0000190](http://www.hmdb.ca/metabolites/HMDB0000190) | Carbohydrate | Glycolysis; Gluconeogenesis, and Pyruvate Metabolism | C3H6O3 | LACTIC ACID |
| 285 | LYSINE | C00047 | [HMDB0003405](http://www.hmdb.ca/metabolites/HMDB0003405) | Amino Acid | Lysine Metabolism | C6H14N2O2 |  |
| 286 | METHIONINE | C00073 | [HMDB0000696](http://www.hmdb.ca/metabolites/HMDB0000696) | Amino Acid | Methionine, Cysteine, SAM and Taurine Metabolism | C5H11NO2S |  |
| 287 | METHIONINE SULFOXIMINE | C03510 | HMDB0029430 | Amino Acid |  | C5H12N2O3S |  |
| 288 | PHENYLALANINE | C00079 | [HMDB0000159](http://www.hmdb.ca/metabolites/HMDB0000159) | Amino Acid | Phenylalanine Metabolism | C9H11NO2 |  |
| 289 | PIPECOLIC ACID | C00408 | HMDB0000070 | Amino Acid | Lysine Metabolism | C6H11NO2 |  |
| 290 | PROLINE | C00148 | HMDB0000162 | Amino Acid | Urea cycle; Arginine and Proline Metabolism | C5H9NO2 |  |
| 291 | RHAMNOSE | C00507 | [HMDB00849](http://www.hmdb.ca/metabolites/HMDB00849) | Monosaccharide | Fructose and mannose metabolism | C6H12O5 |  |
| 292 | SERINE | C00065 | [HMDB0000187](http://www.hmdb.ca/metabolites/HMDB0000187) | Amino Acid | Glycine, Serine and Threonine Metabolism | C3H7NO3 |  |
| 293 | THREONINE | C00188 | [HMDB0000167](http://www.hmdb.ca/metabolites/HMDB0000167) | Amino Acid | Glycine, Serine and Threonine Metabolism | C4H9NO3 |  |
| 294 | TRYPTOPHANAMIDE | C00977 | [HMDB13318](http://www.hmdb.ca/metabolites/HMDB13318) |  |  | C11H13N3O |  |
| 295 | TYROSINE | C00082 | [HMDB0000158](http://www.hmdb.ca/metabolites/HMDB0000158) | Amino Acid | Tyrosine Metabolism | C9H11NO3 |  |
| 296 | LUMICHROME | [C01727](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C01727) | HMDB0254199 |  | Riboflavin metabolism | C12H10N4O2 | 7,8-Dimethylalloxazine |
| 297 | MALEIC ACID | [C01384](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C01384) | HMDB00176 |  | Tyrosine Metabolism | C4H4O4 | Maleate |
| 298 | MALEIMIDE | [C07272](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C07272) | HMDB0254312 |  |  | C4H3NO2 | 2,5-Pyrroledione |
| 299 | MALIC ACID | C00149 | HMDB0000156 | Energy | TCA Cycle | C4H6O5 |  |
| 300 | MALONATE | [C00383](https://www.genome.jp/dbget-bin/www_bget?C00383) | HMDB00691 |  | Fatty acid biosynthesis; Aspartate metabolism | C3H4O4 | Malonic acid |
| 301 | MALTOSE | [C00208](https://www.genome.jp/dbget-bin/www_bget?C00208) | [HMDB0000163](http://www.hmdb.ca/metabolites/HMDB0000163) | Carbohydrate | Glycogen Metabolism | C12H22O11 |  |
| 302 | MANNITOL/D-SORBITOL | [C00392, C00794](https://www.genome.jp/dbget-bin/www_bget?cpd:C00794) | HMDB0000765, HMDB0000247 |  |  | C6H14O6 |  |
| 303 | MELATONIN | [C01598](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C01598) | HMDB01389 | Hormone | Tryptophan Metabolism | C13H16N2O2 |  |
| 304 | MERCAPTOPYRUVATE | [C00957](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00957) | [HMDB0001368](http://www.hmdb.ca/metabolites/HMDB0001368) |  | Cystein metabolism | C3H4O3S | 3-Mercaptopyruvic acid |
| 305 | MESOXALATE | [C00830](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00830) | [HMDB31522](http://www.hmdb.ca/metabolites/HMDB31522) |  |  | C3H2O5 | Mesoxalic acid, Oxomalonate |
| 306 | Metanephrine | C05588 | HMDB04063 |  | Tyrosine Metabolism | C10H15NO3 | Metadrenaline,  L-Metanephrine |
| 307 | METHYL BETA-D-GALACTOSIDE | [C03619](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C03619) | HMDB0246173 |  |  | C7H14O6 |  |
| 308 | METHYL INDOLE-3-ACETATE | C20635 | HMDB0029738 | Indole-3-acetic acid derivative | A catabolite of tryptophan converted by the gut microbiota | C11H11NO2 | Indole-3-methyl acetate |
| 309 | METHYL JASMONATE | [C11512](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C11512) | [HMDB0036583](http://www.hmdb.ca/metabolites/HMDB0036583) | Lipid, jasmonic acid |  | C13H20O3 |  |
| 310 | METHYL VANILLATE | N/A | HMDB0240266 |  |  | C9H10O4 |  |
| 311 | METHYL-2-OXOVALERIC ACID | C00671 | HMDB0000491 | Short-chained keto acids and derivatives | Neurotoxin; abnormal metabolite arising from the incomplete breakdown of branched-chain amino acids | C6H10O3 |  |
| 312 | METHYLMALONATE | [C02170](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C02170) | HMDB00202 | Dicarboxylic acid | Intermediate in the metabolism of fat and protein; Propanoate metabolism | C4H6O4 | Methylmalonic acid |
| 313 | MEVALOLACTONE | C00418 | [HMDB0000227](http://www.hmdb.ca/metabolites/HMDB00227) | Hydroxy fatty acid | Steroid biosynthesis; Mevalonate pathway | C6H12O4 |  |
| 314 | MYO-INOSITOL | C00137 | HMDB00211 | Inositol isoform | Galactose metabolism; Inositol phosphate metabolism | C6H12O6 |  |
| 315 | MYRISTIC ACID | C06424 | [HMDB0000806](http://www.hmdb.ca/metabolites/HMDB0000806) | Long-Chain Fatty Acid | Fatty Acid Biosynthesis | C14H28O2 |  |
| 316 | N(PAI)-METHYL-L-HISTIDINE | C01152 | [HMDB00001, HMDB00479](http://www.hmdb.ca/metabolites/HMDB00001) | Histidine derivative, Amino Acid | Histidine Metabolism | C7H11N3O2 | 1-Methylhistidine |
| 317 | N,N-DIMETHYL-1,4-PHENYLENEDIAMINE | C04203 | HMDB0247696 | Dialkylarylamine | Xenobiotic | C8H12N2 |  |
| 318 | N6-(DELTA2-ISOPENTENYL)-ADENINE | C04083 | N/A |  | Plant metabolite | C10H13N5 |  |
| 319 | N-ACETYL-D-GLUCOSAMINE | C00140 | [HMDB00215](http://www.hmdb.ca/metabolites/HMDB00215) | Acylaminosugar | Amino sugar metabolism | C8H15NO6 |  |
| 320 | N-ACETYL-DL-GLUTAMIC ACID | C00624 | [HMDB0001138](http://www.hmdb.ca/metabolites/HMDB0001138) | Amino Acid Derivative | Arginine metabolism | C7H11NO5 |  |
| 321 | N-ACETYL-DL-METHIONINE | [C02712](https://www.genome.jp/dbget-bin/www_bget?cpd+C02712) | [HMDB0011745](http://www.hmdb.ca/metabolites/HMDB0011745) | Amino Acid Derivative | Methionine, Cysteine, SAM and Taurine Metabolism | C7H13NO3S |  |
| 322 | N-ACETYL-DL-SERINE | [C00979](https://www.genome.jp/dbget-bin/www_bget?cpd:C00979) | [HMDB03011](http://www.hmdb.ca/metabolites/HMDB03011) | Amino Acid Derivative | Cysteine Metabolism | C5H9NO4 |  |
| 323 | N-ACETYL-D-TRYPTOPHAN | C03137 | HMDB0255052 | Amino Acid Derivative |  | C13H14N2O3 |  |
| 324 | N-ACETYLGLYCINE | N/A | [HMDB0000532](http://www.hmdb.ca/metabolites/HMDB0000532) | Amino Acid Derivative |  | C4H7NO3 |  |
| 325 | N-ACETYL-L-ALANINE | N/A | HMDB00766 | Amino Acid Derivative |  | C5H9NO3 |  |
| 326 | N-ACETYL-L-ASPARTIC ACID | C01042 | [HMDB0000812](http://www.hmdb.ca/metabolites/HMDB0000812) | Amino Acid | Alanine and Aspartate Metabolism | C6H9NO5 |  |
| 327 | N-ACETYL-L-CYSTEINE | D00221 | HMDB01890 | Amino Acid Derivative | Glutathione Synthesis | C5H9NO3S | NAC |
| 328 | N-ACETYL-L-LEUCINE | C02710 | [HMDB0011756](http://www.hmdb.ca/metabolites/HMDB0011756) | Amino Acid | Leucine, Isoleucine and Valine Metabolism | C8H15NO3 |  |
| 329 | N-ACETYL-L-PHENYLALANINE | [C03519](https://www.genome.jp/dbget-bin/www_bget?C03519) | [HMDB0000512](http://www.hmdb.ca/metabolites/HMDB0000512) | Amino Acid | Phenylalanine Metabolism | C11H13NO3 |  |
| 330 | N-ACETYLNEURAMINATE | [C00270](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00270) | HMDB00230 | Neuraminic Acid Derivative | Amino sugar metabolism | C11H19NO9 | Sialic acid |
| 331 | N-ACETYLPUTRESCINE | [C02714](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C02714) | HMDB02064 | Polyamine | Arginine and Proline Metabolism; GABA metabolism | C6H14N2O |  |
| 338 | N-ACETYLSEROTONIN | [C00978](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00978) | HMDB01238 | Hydroxyindole | Tryptophan Metabolism, Melatonin Biosynthesis | C12H14N2O2 | Normelatonin |
| 332 | NAD | [C00003](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00003) | HMDB00902 | Cofactors and Vitamins | Nicotinate and Nicotinamide Metabolism | C21H27N7O14P2 | Nicotinamide adenine dinucleotide |
| 333 | NADP | C00006 | HMDB0000217 | Cofactors and Vitamins | Nicotinate and Nicotinamide Metabolism | C21H28N7O17P3 | Nicotinamide adenine dinucleotide phosphate |
| 334 | NADH | C00004 | HMDB0001487 | Cofactors and Vitamins | Nicotinate and Nicotinamide Metabolism | C21H29N7O14P2 |  |
| 335 | NADPH | C00005 | HMDB0000221 | Cofactors and Vitamins | Nicotinate and Nicotinamide Metabolism | C21H30N7O17P3 |  |
| 336 | N-ALPHA-ACETYL-L-ASPARAGINE | N/A | HMDB06028 | Amino Acid Derivative |  | C6H10N2O4 | N-Acetylasparagine |
| 337 | N-ALPHA-ACETYL-L-LYSINE | [C02727](https://www.genome.jp/dbget-bin/www_bget?C02727) | HMDB00446 | Amino Acid Derivative |  | C8H16N2O3 | N2-Acetyl-L-lysine |
| 339 | N-AMIDINO-L-ASPARTATE | C03139 | HMDB03157 | Amino Acid Derivative |  | C5H9N3O4 | Guanidinosuccinic acid |
| 340 | N6,N6,N6-Trimethyl-L-lysine | C03793 | HMDB0001325 | Amino Acid Derivative | Carnitine Metabolism; Lysine degradation | C9H20N2O2 |  |
| 341 | NERVONIC ACID | C08323 | HMDB02368 | Fatty Acid | Long-chained fatty acid | C24H46O2 |  |
| 342 | N-FORMYLGLYCINE | N/A | HMDB0255145 | Amino Acid Derivative |  | C3H5NO3 |  |
| 343 | NICOTINAMIDE HYPOXANTHINE DINUCLEOTIDE | C04423 | N/A |  |  | C21H27N6O15P2 |  |
| 344 | Nicotinamide mononucleotide(NMN) | C00455 | HMDB00229 | Cofactors and Vitamins | Nicotinate and Nicotinamide Metabolism | C11H15N2O8P |  |
| 345 | Nicotinamide(NAM) | [C00153](https://www.genome.jp/dbget-bin/www_bget?C00153) | HMDB01406 | Cofactors and Vitamins | Nicotinate and Nicotinamide Metabolism | C6H6N2O |  |
| 346 | Nicotinic acid adenine dinucleotide phosphate (NAADP) | C13051 | N/A | Cofactors and Vitamins | Nicotinate and Nicotinamide Metabolism | C21H27N6O18P3 | NICOTINIC ACID ADENINE DINUCLEOTIDE PHOSPHATE ( |
| 347 | Nicotinic acid adenine dinucleotide (NAAD) | C00857 | HMDB0001179 | Cofactors and Vitamins | Nicotinate and Nicotinamide Metabolism | C21H26N6O15P2 | Nicotinic acid adenine dinucleotide |
| 348 | Nicotinic acid mononucleotide(NAMN) | N/A | HMDB0001132 | Cofactors and Vitamins | Nicotinate and Nicotinamide Metabolism | C11H14NO9P |  |
| 349 | Nicotinic acid(NA) | C00253 | [HMDB01488](http://www.hmdb.ca/metabolites/HMDB01488) | Cofactors and Vitamins | Nicotinate and Nicotinamide Metabolism | C6H5NO2 | Vitamin B3, Niacin |
| 350 | N-METHYL-D-ASPARTIC ACID | C12269 | [HMDB02393](http://www.hmdb.ca/metabolites/HMDB02393) | Amino Acid Derivative |  | C5H9NO4 |  |
| 351 | N-METHYL-L-GLUTAMATE | C01046 | HMDB0062660 | Amino Acid Derivative |  | C6H11NO4 |  |
| 352 | N-methylnicotinamide(MeNAM) | N/A | HMDB0003152 | Cofactors and Vitamins |  | C7H8N2O |  |
| 353 | N-METHYLTRYPTAMINE | C06213 | HMDB0004370 | Tryptamine Derivative | Tryptophan Metabolism | C11H14N2 |  |
| 354 | NONANOATE | [C01601](https://www.genome.jp/dbget-bin/www_bget?cpd+C01601) | HMDB00847 | Fatty Acid | Medium-Chain Fatty Acid | C9H18O2 | Pelargonic acid |
| 355 | O-ACETYL-L-CARNITINE | C02571 | [HMDB0000201](http://www.hmdb.ca/metabolites/HMDB0000201) | Lipid | Fatty Acid Metabolism (Acyl Carnitine, Short Chain) | C9H17NO4 |  |
| 356 | O-ACETYL-L-SERINE | [C00979](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00979) | [HMDB0003011](http://www.hmdb.ca/metabolites/HMDB0003011) | Amino Acid Derivative | Cystein and Methionine Metabolism | C5H9NO4 |  |
| 357 | OCTOPAMINE | C04227 | [HMDB04825](http://www.hmdb.ca/metabolites/HMDB04825) | Phenol |  | C8H11NO2 | p-Octopamine |
| 358 | OLEATE | [C00712](https://www.genome.jp/dbget-bin/www_bget?C00712) | HMDB00207 | Fatty Acid | Long-Chain Fatty Acid; Fatty Acid Biosynthesis | C18H34O2 | Oleic acid |
| 359 | Oleoylethanolamide | C20792 | HMDB0002088 | Lipid | PPARalpha agonist, Lipolysis | C20H39NO2 |  |
| 360 | OMEGA-HYDROXYDODECANOIC ACID | C08317 | HMDB02059 | Lipid | Medium-Chain Fatty Acid | C12H24O3 | 12-Hydroxydodecanoic acid |
| 361 | O-PHOSPHO-DL-SERINE | C01005 | HMDB01721 | Amino Acid Derivative | Glycine, serine and threonine metabolism, Cystein and Methionine Metabolism | C3H8NO6P | DL-O-Phosphoserine |
| 362 | OPHTHALMIC ACID | C21016 | HMDB05765 | Amino Acid Derivative |  | C11H19N3O6 |  |
| 363 | ORNITHINE | C00077 | [HMDB00214](http://www.hmdb.ca/metabolites/HMDB00214) | Amino Acid Derivative | Urea cycle; Arginine and Proline Metabolism | C5H12N2O2 | L-ornithine |
| 364 | OROTATE | [C00295](https://www.genome.jp/dbget-bin/www_bget?cpd:C00295) | [HMDB0000226](http://www.hmdb.ca/metabolites/HMDB0000226) | Nucleotide | Pyrimidine Metabolism; Orotate containing | C5H4N2O4 |  |
| 365 | O-SUCCINYL-L-HOMOSERINE | [C01118](https://www.genome.jp/dbget-bin/www_bget?C01118) | HMDB0255868 | Amino Acid Derivative |  | C8H13NO6 |  |
| 366 | OXALIC ACID | [C00209](https://www.genome.jp/dbget-bin/www_bget?C00209) | HMDB0002329 | Carboxylic Acid Derivative | Purine Metabolism | C2H2O4 | Oxalate |
| 367 | GSSG | C00127 | [HMDB0003337](http://www.hmdb.ca/metabolites/HMDB0003337) | Amino Acid | Glutathione Metabolism | C20H32N6O12S2 | OXIDIZED GLUTATHIONE |
| 368 | PALMITATE | [C00249](https://www.genome.jp/dbget-bin/www_bget?C00249) | [HMDB0000220](http://www.hmdb.ca/metabolites/HMDB0000220) | Lipid | Long Chain Saturated Fatty Acid | C16H32O2 |  |
| 369 | PALMITOLEIC ACID | [C08362](https://www.genome.jp/dbget-bin/www_bget?cpd+C08362) | [HMDB0003229](http://www.hmdb.ca/metabolites/HMDB0003229) | Lipid | Long Chain Monounsaturated Fatty Acid | C16H30O2 |  |
| 370 | PALMITOYLETHANOLAMINE | [C16512](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwidxMicu7rvAhXImIsKHQHrB-wQFjAAegQIAhAD&url=https%3A%2F%2Fwww.genome.jp%2Fdbget-bin%2Fwww_bget%3FC16512&usg=AOvVaw03w84XGbH3zJDq89lp7Qoi) | [HMDB0002100](http://www.hmdb.ca/metabolites/HMDB0002100) | Lipid | Endocannabinoid | C18H37NO2 |  |
| 371 | P-CRESOL | [C01468](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwj9t9eLu7rvAhXno4sKHfLyCNcQFjAAegQIBBAD&url=https%3A%2F%2Fwww.genome.jp%2Fdbget-bin%2Fwww_bget%3FC01468&usg=AOvVaw3ifdlqlDjO6_bEHlqYgvEj) | HMDB01858 |  | Toluene Degradation | CH3C6H4OH | 4-methylphenol |
| 372 | PENTANOATE | C00803 | HMDB00892 | Fatty Acid | Produced by gut bacteria | C5H10O2 | Valeric acid |
| 373 | PHENETHYLAMINE | [C05332](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C05332) | HMDB12275 | Benzenoid | Phenylalanine Metabolism | C8H11N |  |
| 374 | PHENOL | [C00146](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00146) | HMDB00228 | Benzenoid | Toxic | C6H6O |  |
| 375 | PHENYLACETALDEHYDE | [C00601](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00601) | HMDB06236 | Benzenoid | Phenylalanine metabolism | C8H8O |  |
| 376 | PHENYLACETIC ACID | [C07086](https://www.genome.jp/dbget-bin/www_bget?C07086) | HMDB00209 | Benzenoid | Phenylalanine metabolism | C8H8O2 | Phenyl acetate |
| 377 | Phenylacetyl L-Glutamine | C04148 | HMDB06344 | Amino Acid Derivative | Phenylalanine metabolism | C13H16N2O4 |  |
| 378 | PHENYLETHANOLAMINE | [C02735](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C02735) | HMDB01065 | *Amine* |  | C8H11NO | 2-Hydroxyphenethylamine |
| 379 | PHENYLPYRUVATE | [C00166](https://www.genome.jp/dbget-bin/www_bget?C00166) | [HMDB0000205](http://www.hmdb.ca/metabolites/HMDB0000205) | Benzenoid | Phenylalanine metabolism | C9H8O3 | Phenylpyruvic acid |
| 380 | PHOSPHO(ENOL)PYRUVIC ACID | [C00074](https://www.genome.jp/dbget-bin/www_bget?C00074) | [HMDB0000263](http://www.hmdb.ca/metabolites/HMDB0000263) | Carbohydrate | Glycolysis, Gluconeogenesis, and Pyruvate Metabolism | C3H5O6P | PEP |
| 381 | PHOSPHOCHOLINE | C00588 | [HMDB0001565](http://www.hmdb.ca/metabolites/HMDB0001565) | Lipid | Phospholipid Metabolism | C5H14NO4P |  |
| 382 | PHOSPHONOACETATE | [C05682](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C05682) | HMDB04110 | Organic Phosphonic Acid | Phosphonate and phosphinate metabolism | C2H5O5P | Phosphonoacetic acid |
| 383 | PICOLINIC ACID | [C10164](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C10164) | HMDB02243 | Pyridine Derivative | Tryptophan metabolism | C6H5NO2 |  |
| 384 | PROPIONATE | C00163 | HMDB00237 | Short-chain fatty acid | Propanoate metabolism; Nicotinate and nicotinamide metabolism | C3H6O2 | Propionic acid |
| 385 | Prostaglandin D2 | C00696 | [HMDB01403](http://www.hmdb.ca/metabolites/HMDB01403) | Eicosanoid; Lipid | Arachidonic acid metabolism | C20H32O5 |  |
| 386 | Prostaglandin J2 | C05957 | HMDB02710 | Eicosanoid; Lipid | Arachidonic Acid Metabolism | C20H30O4 |  |
| 387 | PROTOPORPHYRIN | [C02191](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C02191) | HMDB00241 | Porphyrin | Porphyrin metabolism | C34H34N4O4 |  |
| 388 | PTERIN | C00715 | HMDB00802 | Cofactors and Vitamins |  | C6H5N5O |  |
| 389 | PURINE | [C15587](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C15587) | HMDB01366 | Purine | Purine metabolism | C5H4N4 |  |
| 390 | PYRIDINE-2,3-DICARBOXYLATE (Quinolinic acid) | C03722 | HMDB00232 | Pyridine Derivative | Tryptophan metabolism; Nicotinate and nicotinamide metabolism | C7H5NO4 | Quinolinate |
| 391 | PYRIDOXAL (Vitamin B6) | C00250 | [HMDB01545](http://www.hmdb.ca/metabolites/HMDB01545) | Cofactors and Vitamins | Vitamin B6 Metabolism | C8H9NO3 | Another form of Vitamin B6 |
| 392 | PYRIDOXAL 5'-PHOSPHATE | C00018 | [HMDB01491](http://www.hmdb.ca/metabolites/HMDB01491) | Cofactors and Vitamins | Vitamin B6 Metabolism; Thiamine metabolism | C8H10NO6P | Active form of Vitamin B6 |
| 393 | PYRIDOXAMINE | [C00534](https://www.genome.jp/dbget-bin/www_bget?C00534) | [HMDB0001431](http://www.hmdb.ca/metabolites/HMDB0001431) | Cofactors and Vitamins | Vitamin B6 Metabolism | C8H12N2O2 | Another form of Vitamin B6 |
| 394 | PYRROLE-2-CARBOXYLATE | [C05942](https://www.genome.jp/dbget-bin/www_bget?C05942) | HMDB04230 | Pyrrole | D-Amino acid metabolism | C5H5NO2 |  |
| 395 | PYRUVATE | C00022 | [HMDB0000243](http://www.hmdb.ca/metabolites/HMDB0000243) | Carbohydrate | Glycolysis, Gluconeogenesis, and Pyruvate Metabolism | C3H4O3 | PYRUVIC ACID |
| 396 | PYRUVIC ALDEHYDE | [C00546](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00546) | HMDB01167 | Alpha ketoaldehyde | Glycine, serine and threonine metabolism; Pyruvate metabolism | C3H4O2 | 2-Oxopropanal |
| 397 | QUINATE | [C00296](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00296) | HMDB03072 |  | Phenylalanine, tyrosine and tryptophan biosynthesis | C7H12O6 | Quinic acid |
| 398 | QUINOLINECARBOXYLIC ACID | N/A | N/A |  |  | C10H7NO2 |  |
| 399 | RAC-GLYCEROL 1-MYRISTATE | N/A | HMDB0011530 |  |  | C17H34O4 |  |
| 400 | NADH | C00004 | HMDB0001487 | Cofactors and Vitamins | Nicotinate and Nicotinamide Metabolism | C21H29N7O14P2 | Reduced nicotinamide adenine dinucleotide( |
| 401 | RETINOATE | C00777 | HMDB01852 | Cofactors and Vitamins | Retinol Metabolism | C20H28O2 | all-trans-Retinoic acid; Oxidized form of Vitamin A |
| 402 | RIBOFLAVIN | [C00255](https://www.genome.jp/dbget-bin/www_bget?cpd+C00255) | [HMDB0000244](http://www.hmdb.ca/metabolites/HMDB0000244) | Cofactors and Vitamins | Riboflavin Metabolism | C17H20N4O6 |  |
| 403 | ROSMARINIC ACID | [C01850](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C01850) | [HMDB0003572](http://www.hmdb.ca/metabolites/HMDB0003572) | Antioxidant; Coumaric acid derivative | Tyrosine metabolism | C18H16O8 | Rosmarinate |
| 404 | S-(5'-ADENOSYL)-L-HOMOCYSTEINE | [C00021](https://www.genome.jp/dbget-bin/www_bget?C00021) | [HMDB0000939](http://www.hmdb.ca/metabolites/HMDB0000939) | Amino Acid | Methionine, Cysteine, SAM and Taurine Metabolism | C14H20N6O5S | SAH |
| 405 | S-(5'-ADENOSYL)-L-METHIONINE | [C00019](https://www.genome.jp/dbget-bin/www_bget?C00019) | [HMDB0001185](http://www.hmdb.ca/metabolites/HMDB0001185) | Amino Acid | Methionine, Cysteine, SAM and Taurine Metabolism | C15H22N6O5S | SAM |
| 406 | SALICYLAMIDE | D01811 | HMDB0015687 | Benzenoid | Drug | C7H7NO2 |  |
| 407 | SALICYLATE | [C00805](https://www.genome.jp/dbget-bin/www_bget?C00805) | [HMDB0001895](http://www.hmdb.ca/metabolites/HMDB0001895) | Xenobiotics | Drug - Topical Agents | C7H6O3 |  |
| 408 | SARCOSINE (N-methylglycine) | C00213 | HMDB00271 | Amino Acid Derivative | Glycine, serine and threonine metabolism; Methionine Metabolism | C3H7NO2 |  |
| 409 | S-CARBOXYMETHYL-L-CYSTEINE | [C03727](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C03727) | [HMDB0029415](http://www.hmdb.ca/metabolites/HMDB0029415) | Amino Acid Derivative | Drug | C5H9NO4S | Carbocisteine |
| 410 | SELENOMETHIONINE | C05335 | HMDB03966 | Amino Acid Derivative | Antioxidant; Selenocompound metabolism | C5H11NO2Se |  |
| 411 | SEROTONIN CREATININE SULFATE COMPLEX | N/A | N/A |  |  | C14H23N5O7S |  |
| 412 | S-HEXYL-GLUTATHIONE | [C02886](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C02886) | N/A |  |  | C16H29N3O6S |  |
| 413 | SHIKIMATE | [C00493](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00493) | HMDB03070 |  | Phenylalanine, tyrosine and tryptophan biosynthesis | C7H10O5 | Shikimic acid |
| 414 | SN-GLYCEROL 3-PHOSPHATE | C00093 | HMDB0000126 | Lipid | Glycerolipid metabolism, Oxidative phosphorylation | C3H9O6P |  |
| 415 | SORBATE | N/A | HMDB0256823 | Fatty Acid Conjugate |  | C6H8O2 | Propenylacrylic Acid |
| 416 | SPHINGANINE | [C00836](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00836) | HMDB00269 | Lipid | Sphingolipid metabolism | C18H39NO2 |  |
| 417 | SPHINGOMYELIN | C00550 | HMDB0001348 | Lipid | Sphingolipid metabolism | C41H83N2O6P | SM(d18:1/18:0) |
| 418 | STACHYOSE | [C01613](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C01613) | [HMDB0003553](http://www.hmdb.ca/metabolites/HMDB0003553) | Carbohydrate | Galactose metabolism | C24H42O21 |  |
| 419 | STEARATE | C01530 | HMDB00827 | Lipid | Long-chain Fatty Acid; Fatty acid biosynthesis | C18H36O2 | Stearic acid |
| 420 | SUBERIC ACID | [C08278](https://www.genome.jp/dbget-bin/www_bget?C08278) | HMDB00893 | Lipid | Medium-Chain Fatty Acid | C8H14O4 |  |
| 421 | SUCCINATE | C00042 | HMDB00254 | Energy | TCA Cycle | C4H6O4 | SUCCINIC ACID |
| 422 | TARTARIC ACID | [C00898](https://www.genome.jp/dbget-bin/www_bget?C00898) | [HMDB00956](http://www.hmdb.ca/metabolites/HMDB00956) | Sugar Acid | Glyoxylate and dicarboxylate metabolism | C4H6O6 | Tartrate |
| 423 | TAURINE | C00245 | [HMDB0000251](http://www.hmdb.ca/metabolites/HMDB0000251) | Amino Acid | Methionine, Cysteine, SAM and Taurine Metabolism | C2H7NO3S |  |
| 425 | Taurochenodeoxy cholic acid | C05465 | [HMDB00951](http://www.hmdb.ca/metabolites/HMDB00951) | Bile Acid; Lipid | Primary bile acid biosynthesis; Cholesterol metabolism | C26H45NO6S |  |
| 426 | TAUROLITHOCHOLATE | [C02592](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C02592) | [HMDB0000722](http://www.hmdb.ca/metabolites/HMDB0000722) | Bile Acid; Lipid | Primary bile acid biosynthesis | C26H45NO5S | Lithocholyltaurine |
| 427 | THIAMINE | C00378 | HMDB0000235 | Cofactors and Vitamins | Thiamine Metabolism | C12H17N4OS |  |
| 428 | THIAMINE MONOPHOSPHATE | C01081 | [HMDB0002666](http://www.hmdb.ca/metabolites/HMDB0002666) | Cofactors and Vitamins | Thiamine Metabolism | C12H17N4O4PS |  |
| 429 | THIAMINE PYROPHOSPHATE | C00068 | HMDB0001372 | Cofactors and Vitamins | Thiamine Metabolism | C12H18N4O7P2S |  |
| 430 | THIOACETATE | C01857 | [HMDB31188](http://www.hmdb.ca/metabolites/HMDB31188) |  |  | C2H4OS | Ethanethioic acid |
| 431 | THIOPURINE S-METHYLETHER | C16614 | [HMDB60412](http://www.hmdb.ca/metabolites/HMDB60412) | Purine Derivative |  | C6H6N4S | 6-Methylmercaptopurine |
| 432 | THIOUREA | [C14415](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C14415) | [HMDB34155](http://www.hmdb.ca/metabolites/HMDB34155) |  |  | CH4N2S |  |
| 433 | Thromboxane B2 | C05963 | [HMDB03252](http://www.hmdb.ca/metabolites/HMDB03252) | Eicosanoid | Arachidonic acid metabolism | C20H34O6 |  |
| 434 | THYMIDINE | C00214 | [HMDB0000273](http://www.hmdb.ca/metabolites/HMDB0000273) | Nucleotide | Pyrimidine Metabolism, Thymine containing | C10H14N2O5 |  |
| 435 | Thymidine 5' triphosphate | C00459 | HMDB0001342 | Nucleotide | Pyrimidine metabolism | C10H17N2O14P3 | Deoxythymidine triphosphate (dTTP) |
| 436 | THYMIDINE 5'-MONOPHOSPHATE | [C00364](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00364) | HMDB01227 | Nucleotide | Pyrimidine metabolism; Nucleotide metabolism | C10H15N2O8P | Deoxythymidine 5'-phosphate (dTMP) |
| 437 | THYMIDINE-5'-DIPHOSPHO-ALPHA-D-GLUCOSE | [C00842](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00842) | [HMDB01328](http://www.hmdb.ca/metabolites/HMDB01328) |  |  | C16H26N2O16P2 | dTDP-D-glucose |
| 438 | THYMINE | C00178 | [HMDB0000262](http://www.hmdb.ca/metabolites/HMDB0000262) | Nucleotide | Pyrimidine Metabolism, Thymine containing | C5H6N2O2 |  |
| 439 | THYROTROPIN RELEASING HORMONE | [C03958](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C03958) | HMDB0060080 | Hormone | Estrogen derivative; Thyroid hormone secretions | C16H22N6O4 | Protirelin |
| 440 | THYROXINE | [C01829](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C01829) | HMDB00248 | Hormone | Tyrosine metabolism; Thyroid hormone synthesis | C15H11I4NO4 | T4; Levothyroxin |
| 441 | TRANS-CINNAMATE | C00423 | HMDB00930 | Cinnamatic Acid; Phytochemical | Plant and microbial metabolite,; Phenylalanine metabolism | C9H8O2 | Phenylacrylic acid |
| 442 | TRICOSANOIC ACID | N/A | HMDB01160 | Lipid | Very long-chain fatty acid | C23H46O2 | N-tricosanoate |
| 443 | TRIGONELLINE | C01004 | [HMDB0000875](http://www.hmdb.ca/metabolites/HMDB0000875) | Cofactors and Vitamins | Nicotinate and Nicotinamide Metabolism | C7H7NO2 |  |
| 444 | TRYPTAMINE | [C00398](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00398) | HMDB00303 | Alkaloid | Tryptophan metabolism | C10H12N2 |  |
| 445 | TRYPTOPHAN | C00078 | [HMDB0000929](http://www.hmdb.ca/metabolites/HMDB0000929) | Amino Acid | Tryptophan Metabolism | C11H12N2O2 |  |
| 446 | TYRAMINE | [C00483](http://www.genome.ad.jp/dbget-bin/www_bget?cpd:C00483) | HMDB00306 | Benzenoid | Tyrosine metabolism; Methane metabolism | C8H11NO |  |
| 447 | URACIL | C00106 | [HMDB0000300](http://www.hmdb.ca/metabolites/HMDB0000300) | Nucleotide | Pyrimidine Metabolism, Uracil containing | C4H4N2O2 |  |
| 448 | URIC ACID | C00366 | HMDB0000289 | Nucleotide | Purine Metabolism, (Hypo)Xanthine/Inosine containing | C5H4N4O3 |  |
| 449 | URIDINE | C00299 | [HMDB0000296](http://www.hmdb.ca/metabolites/HMDB0000296) | Nucleotide | Pyrimidine Metabolism, Uracil containing | C9H12N2O6 |  |
| 450 | UDP | C00015 | [HMDB00295](http://www.hmdb.ca/metabolites/HMDB00295) | Nucleotide | Pyrimidine Metabolism, Uracil containing | C9H14N2O12P2 | URIDINE 5'-DIPHOSPHATE |
| 451 | URIDINE 5'-DIPHOSPHOGLUCOSE | C00029 | [HMDB00286](http://www.hmdb.ca/metabolites/HMDB00286) | Nucleotide Sugar | Galactose metabolism; Glycerolipid metabolism; Nucleotide sugars metabolism | C15H24N2O17P2 | UDP-glucose |
| 452 | URIDINE 5'-DIPHOSPHOGLUCURONIC ACID | C00167 | [HMDB00935](http://www.hmdb.ca/metabolites/HMDB00935) | Nucleotide Sugar | Amino sugar and nucleotide sugar metabolism | C15H22N2O18P2 | UDP-glucuronate |
| 453 | UDP-GalNAc/UDP-GlcNAc | G10611, C00043 | HMDB0000304, HMDB0000290 |  |  | C17H27N3O17P2 | URIDINE 5'-DIPHOSPHO-N-ACETYLGALACTOSAMINE/GLUGOSAMINE |
| 454 | UTP | C00075 | [HMDB00285](http://www.hmdb.ca/metabolites/HMDB00285) | Nucleotide | Pyrimidine Metabolism, Uracil containing | C9H15N2O15P3 | URIDINE 5'-TRIPHOSPHATE |
| 455 | UMP | [C00105](https://www.genome.jp/dbget-bin/www_bget?C00105) | [HMDB0000288](http://www.hmdb.ca/metabolites/HMDB0000288) | Nucleotide | Pyrimidine Metabolism, Uracil containing | C9H13N2O9P | URIDINE-5-MONOPHOSPHATE |
| 456 | UROCANATE | C00785 | HMDB00301 |  | Histidine metabolism | C6H6N2O2 |  |
| 457 | VALINE | C00183 | [HMDB0000883](http://www.hmdb.ca/metabolites/HMDB0000883) | Amino Acid | Leucine, Isoleucine and Valine Metabolism | C5H11NO2 |  |
| 458 | Vitamin D3 | C05443 | HMDB00876 | Cofactors and Vitamins | Steroid biosynthesis | C27H44O | Cholecalciferol |
| 459 | XANTHINE | C00385 | [HMDB0000292](http://www.hmdb.ca/metabolites/HMDB0000292) | Nucleotide | Purine Metabolism, (Hypo)Xanthine/Inosine containing | C5H4N4O2 |  |
| 460 | XANTHOSINE | [C01762](https://www.genome.jp/dbget-bin/www_bget?cpd+C01762) | [HMDB0000299](http://www.hmdb.ca/metabolites/HMDB0000299) | Nucleotide | Purine Metabolism, (Hypo)Xanthine/Inosine containing | C10H12N4O6 |  |
| 461 | XANTHOSINE 5'-MONOPHOSPHATE | C00655 | HMDB0001554 | Nucleotide | Purine Metabolism, (Hypo)Xanthine/Inosine containing | C10H13N4O9P |  |
| 462 | XANTHURENIC ACID | C02470 | HMDB00881 |  | Tryptophan Metabolism | C10H7NO4 | xanthurenate |
| 463 | Acetyl COA | C00024 | HMDB0001206 | Energy | TCA Cycle | C23H38N7O17P3S |  |
| 464 | DIETHYL SUCCINATE | N/A | HMDB0033838 | Lipid |  | C8H14O4 |  |
| 465 | D-(+)-GLUCOSAMINE/D-(+)-GALACTOSAMINE | C00329, C02262 | HMDB0001514, HMDB0245095 |  |  | C6H13NO5 |  |
|  | CITRATE/ISOCITRATE | C00158, C00311 | HMDB0000094, HMDB0000193 | Energy | TCA Cycle | C6H8O7 |  |
|  | Heptadecanoate | N/A | HMDB0002259 |  |  | C17H34O2 |  |