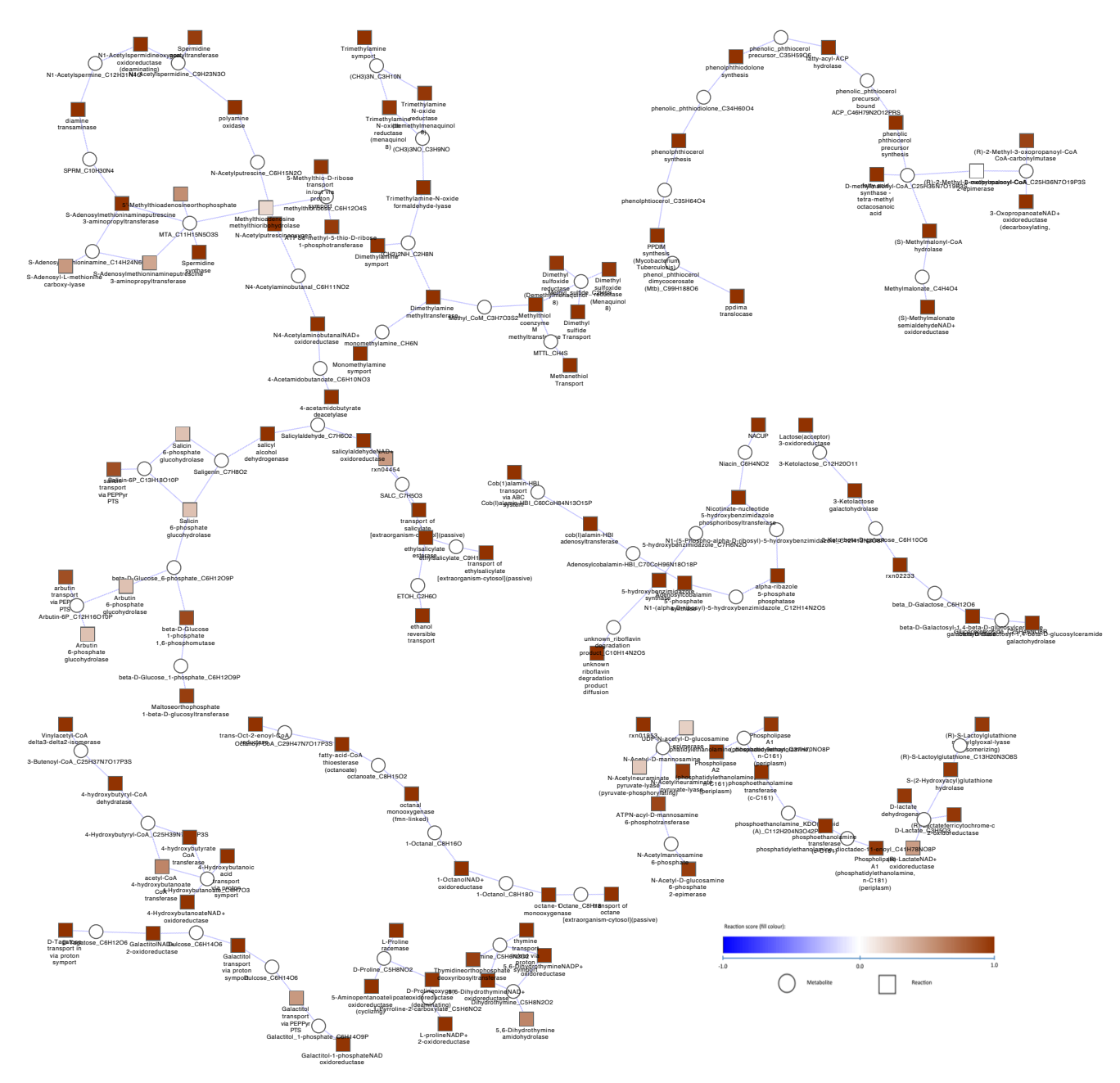
Spermidine
N1-Acetylspermidine oxidoreductase (deaminating)
N1-Acetylspermidine_C9H23N3O
N1-Acetylspermine_C12H31N4O
diamine transaminase
polyamine oxidase
SPRM_C10H30N4
N-Acetylputrescine_C6H15N2O
S-Adenosylmethioninamineputrescine 3-aminopropyltransferase
MTA_C11H15N5O3S
S-Adenosylmethioninamine_C14H24N6
S-Adenosylmethioninamineputrescine 3-aminopropyltransferase
S-Adenosyl-L-methionine carboxy-lyase
Spermidine synthase
N4-Acetylaminobutanal_C6H11NO2
N4-Acetylaminobutanal NAD+ oxidoreductase
Monomethylamine symport
4-Acetamidobutanoate_C6H10NO3
4-acetamidobutyrate deacetylase
Trimethylamine symport
(CH3)3N_C3H10N
Trimethylamine N-oxide reductase (menaquinol 8)
Trimethylamine N-oxide reductase (menaquinol 8)
(CH3)3NO_C3H9NO
Trimethylamine-N-oxide formaldehyde-lyase
Dimethylamine symport
Dimethylamine methyltransferase
Methyl_CoM_C3H7O3S2
Methylthiol coenzyme M methyltransferase
MTTL_CH4S
Methanethiol Transport
Dimethyl sulfoxide reductase (Demethylmenaquinol 8)
Dimethyl sulfoxide reductase (Menaquinol 8)
Dimethyl sulfide Transport
phenolic_phthiocerol precursor_C35H59O6
fatty-acyl-ACP hydrolase
phenolphthiodolone synthesis
phenolic_phthiodiolone_C34H60O4
phenolic_phthiocerol precursor bound ACP_C46H78N2O12PRS
phenolphthiocerol synthesis
phenolphthiocerol_C35H64O4
PPDIM synthesis (Mycobacterium Tuberculosis)
phenol_phthiocerol dimycocerosate (Mtb)_C99H188O6
ppdima translocase
phenolic phthiocerol precursor synthesis
(R)-2-Methyl-3-oxopropanoyl-CoA CoA-carbonylmutase
(R)-2-Methyl-3-oxopropanoyl-CoA_C25H36N7O19P3S
2-epimerase
3-OxopropanoateNAD+ oxidoreductase (decarboxylating,
(S)-Methylmalonyl-CoA hydrolase
Methylmalonate_C4H4O4
(S)-Methylmalonate semialdehydeNAD+ oxidoreductase
Salicylaldehyde_C7H6O2
salicyl alcohol dehydrogenase
salicylaldehydeNAD+ oxidoreductase
Salicin 6-phosphate glucohydrolase
Saligenin_C7H8O2
Salicin-6P_C13H18O10P
Salicin transport via PEPPyr PTS
Salicin 6-phosphate glucohydrolase
rxn04454
SALC_C7H5O3
transport of salicylate [extraorganism-cytosol](passive)
ethylsalicylate esterase
ethylsalicylate_C9H10O3
transport of ethylsalicylate [extraorganism-cytosol](passive)
ETOH_C2H6O
ethanol reversible transport
beta-D-Glucose_6-phosphate_C6H12O9P
Arbutin 6-phosphate glucohydrolase
arbutin transport via PEPPyr PTS
Arbutin-6P_C12H16O7P
Arbutin 6-phosphate glucohydrolase
beta-D-Glucose 1-phosphate 1,6-phosphomutase
beta-D-Glucose_1-phosphate_C6H12O9P
Maltoseorthophosphate 1-beta-D-glucosyltransferase
Cob(I)alamin-HBI transport via ABC system
Cob(I)alamin-HBI_C60CoH84N13O15P
cob(I)alamin-HBI adenosyltransferase
Adenosylcobalamin-HBI_C70CoH96N18O18P
NACUP
Niacin_C6H4NO2
Lactose(acceptor) 3-oxidoreductase
3-Ketolactose_C12H20O11
Nicotinate-nucleotide 5-hydroxybenzimidazole phosphoribosyltransferase
3-Ketolactose galactohydrolase
5-hydroxybenzimidazole_C7H6N2O
alpha-ribazole 5-phosphate phosphatase
N1-(alpha-ribazolyl)-5-hydroxybenzimidazole_C12H14N2O5
rxn02233
beta-D-Galactose_C6H12O6
beta-D-Galactosyl-1,4-beta-D-glucosylceramide galactohydrolase
unknown riboflavin degradation product C10H14N2O5
unknown riboflavin degradation product diffusion
Vinylacetyl-CoA delta3-delta2-isomerase
3-Butenoyl-CoA_C25H37N7O17P3S
4-hydroxybutyryl-CoA dehydratase
4-Hydroxybutyryl-CoA_C25H39N7O18P3S
4-hydroxybutyrate CoA transferase
acetyl-CoA 4-hydroxybutanoate CoA transferase
4-Hydroxybutanoic acid transport via proton symport
4-Hydroxybutanoate_C4H7O3
4-Hydroxybutanoate NAD+ oxidoreductase
trans-Oct-2-enoyl-CoA Octanoyl-CoA_C29H47N7O17P3S
fatty-acid-CoA thioesterase (octanoate)
octanoate_C8H15O2
octanal monooxygenase (fmn-linked)
1-Octanal_C8H16O
1-OctanolNAD+ oxidoreductase
1-Octanol_C8H18O
octane-monooxygenase
Octane_C8H18
transport of octane [extraorganism-cytosol](passive)
rxn01853
UDP-N-acetyl-D-glucosamine
N-Acetyl-D-mannosamine
N-Acetylneuraminate pyruvate-lyase
N-Acetylneuraminate pyruvate-lyase
ATPN-acyl-D-mannosamine 6-phosphotransferase
N-Acetylmannosamine 6-phosphate
N-Acetyl-D-glucosamine 6-phosphate 2-epimerase
Phospholipase A1
Phospholipase A2
phosphatidylethanolamine (c-C161)
phosphoethanolamine transferase (c-C161)
phosphoethanolamine_KDO2-lipid (A)_C112H204NSO42P
phosphoethanolamine transferase
phosphatidylethanolamine (c-C161)
Phospholipase A1 (phosphatidylethanolamine, n-C181) (periplasm)
(R)-S-Lactoylglutathione glyoxal-lyase (isomerizing)
(R)-S-Lactoylglutathione_C13H20N3O8S
S-(2-Hydroxyacyl)glutathione hydrolase
D-lactate dehydrogenase
D-Lactate_C3H6O3
D-Lactate NAD+ oxidoreductase
D-Tagatose transport in via proton symport
D-Tagatose_C6H12O6
GalactitolNAD+ 2-oxidoreductase
D-Glucose_C6H14O6
Galactitol transport via proton symport
Galactitol transport via PEPPyr PTS
Galactitol_1-phosphate_C6H14O9P
Galactitol-1-phosphateNAD oxidoreductase
L-Proline racemase
D-Proline_C5H8NO2
5-Aminopentanoate(proline) oxidoreductase (cyclizing)
D-Prolineoxy oxidoreductase (deaminating)
D-Proline-2-carboxylate_C5H6NO2
L-prolineNADP+ 2-oxidoreductase
thymine transport via proton symport
Thymine_C5H6N2O2
Thymidineorthophosphate deoxyribosyltransferase
5,6-DihydrothymineNADP+ oxidoreductase
5,6-Dihydrothymine NAD+ oxidoreductase
Dihydrothymine_C5H8N2O2
5,6-Dihydrothymine amidohydrolase
Reaction score (fill colour):
-1.0
0.0
1.0
Metabolite
Reaction