2-OXOCARBOXYLIC ACID METABOLISM

chain elongation RM001
2-oxoacid conversion RM044
carboxyl to amino conversion RM032 / RM002
Oxaloacetate
AcCoA
Aspartate
2,4-Diaminobutanoate
Glycine, serine and threonine metabolism
Citrate
Citrate cycle (TCA cycle)
cis-Aconitate
Isocitrate
Oxalosuccinate
Arginine biosynthesis
N-Acetyl-glutamate
N-Acetylornithine
Succinyl-CoA
2-Oxoglutarate
Glutamate
LysW-glutamate
LysW-ornithine
Ornithine
AcCoA
Homocitrate
cis-Homoaconitate
Homoisocitrate
Lysine biosynthesis
Oxaloglutarate
Lysine degradation
Glutaryl-CoA
2-Oxoadipate
2-Amino-adipate
LysW-γ-L-α-aminoadipate
LysW-γ-L-lysine
Lysine
AcCoA
(Homo)2citrate
cis-(Homo)2aconitate
(Homo)2isocitrate
Coenzyme B biosynthesis
2-Oxopimelate
AcCoA
(Homo)3citrate
cis-(Homo)3aconitate
(Homo)3isocitrate
2-Oxosuberate

chain elongation RM001
2-oxoacid conversion RM044
Acetoin
branched chain addition RM033
chain elongation RM001
2-oxoacid conversion RM044
glucosinolate biosynthesis RM030
Pyruvate
Alanine
Acetyl-CoA
AcCoA
Isobutyryl-CoA
AcCoA
2-Oxoisovalerate
Valine
1-Methylethyl glucosinolate
Pyruvate metabolism
Alanine, aspartate and glutamate metabolism
(R)-2-Methylmalate
(2S)-2-Isopropylmalate
2-Isopropylmaleate
Valine, leucine and isoleucine biosynthesis
2-Methylmaleate
(2R,3S)-3-Isopropylmalate
D-erythro-3-Methylmalate
(2S)-2-Isopropyl-3-oxosuccinate
3-Methyl-butanoyl-CoA
2-Oxoisocaproate
Leucine
2-Methylpropyl glucosinolate
2-Oxobutanoate
(S)-2-Methyl-butanoyl-CoA
(S)-3-Methyl-2-oxopentanoate
Propanoyl-CoA
(S)-2-Aminobutanoate
Isoleucine
1-Methylpropyl glucosinolate
Propanoate metabolism
Cysteine and methionine metabolism
2-Oxo-4-methylthio-butanoic acid
Methionine
AcCoA
Glucosinolate biosynthesis
2-Oxo-5-methylthio-pentanoic acid
AcCoA
Homo-methionine
3-Methylthiopropyl glucosinolate
2-Oxo-6-methylthio-hexanoic acid
AcCoA
Dihomo-methionine
4-Methylthiobutyl glucosinolate
2-Oxo-7-methylthio-heptanoic acid
AcCoA
Trihomo-methionine
5-Methylthiopentyl glucosinolate
2-Oxo-8-methylthio-octanoic acid
AcCoA
Tetrahomo-methionine
6-Methylthiohexyl glucosinolate
2-Oxo-9-methylthio-nonanoic acid
AcCoA
Pentahomo-methionine
7-Methylthioheptyl glucosinolate
2-Oxo-10-methylthio-decanoic acid
Hexahomo-methionine
8-Methylthiooctyl glucosinolate
Phenylpyruvate
Phenylalanine
Benzyl glucosinolate
2-Oxo-4-phenyl-butanoate
Homo-phenylalanine
2-Phenylethyl glucosinolate
4-Hydroxyphenyl-pyruvate
Tyrosine
p-Hydroxybenzyl glucosinolate
Tryptophan
Indolylmethyl glucosinolate

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