fatty acid _beta;-oxidation II (peroxisome)
(MetaCyc::PWY-5136)

cytosol

peroxisome

peroxisomal_membrane

plasma_membrane

mitochondrion

Link to SBGN notation

-2   0   2

FadD

LACS 5

thiocyanate

long-chain
acyl-CoA
synthetase
8 ACSBG2

long-chain
fatty-acid
-CoA ligase 1

NOT

AND

NOT

perchlorate

Mg2+

long-chain
acyl-CoA
synthetase 6

FAD

LACS 3

long-chain
acyl-CoA
synthetase 7

PBE

medium-chain
acyl-CoA
synthetase

LACS 4

LACS 6

AT1G06290

oleate

MFP a

FATP-2

acyl coA
dehydrogenase

AOX

T1

Mg2+

ATP

a 2,3,4-
saturated
fatty
acid

diphosphate

AMP

hBG1

peroxisomal
acyl-coenzyme
A oxidase 2

fatty-acyl
coenzyme
A oxidase

peroxisomal 3-ketoacyl-
CoA thiolase

3-ketoacyl-
CoA thiolase,
peroxisomal

FadI

tris-
hydrochloride

O2

NSL-TP

plasma_membrane

Mg2+

FadA

3-ketoacyl-CoA thiolase
/ 3-oxoacyl CoA
thiolase

3-oxoacyl
CoA thiolase

acetyl-CoA

coenzyme A

a 2,3,4-
saturated
fatty
acyl CoA

hydrogen
peroxide

FadK

iodoacetamide

SCEH

trifunctional
enzyme beta
subunit,
mitochondria
precursor

FadB

FadB

FadJ

a (2E)-
alk-2-
enoyl-CoA

ACX4

ACX4

ACX1

ACX1

HCDH

AT5G65110

AND

multifunctional
protein
MFP III

H2O

iodoacetamide

NOT

AND

NOT

FadA

3-hydroxy-
3-methylbutyryl-
A-dehydrogenase
subunit

multifunctional
protein
MFP I

peroxisomal
fatty acid
-beta;-oxidation
multifunctional
protein
AIM1

tris

NOT

PcaF

PcaF

FadA

AND

NOT

peroxisomal
fatty acid
beta;-oxidation
multifunctional
protein
MFP2

a (3S)
3-hydroxyacyl-CoA

multifunctional
protein
MFP I

NOT

N-ethylmaleimide

NAD+

NADH

multifunctional
protein
MFP II

H+

SBGNhub Pathway Collection

Rendered by SBGNview