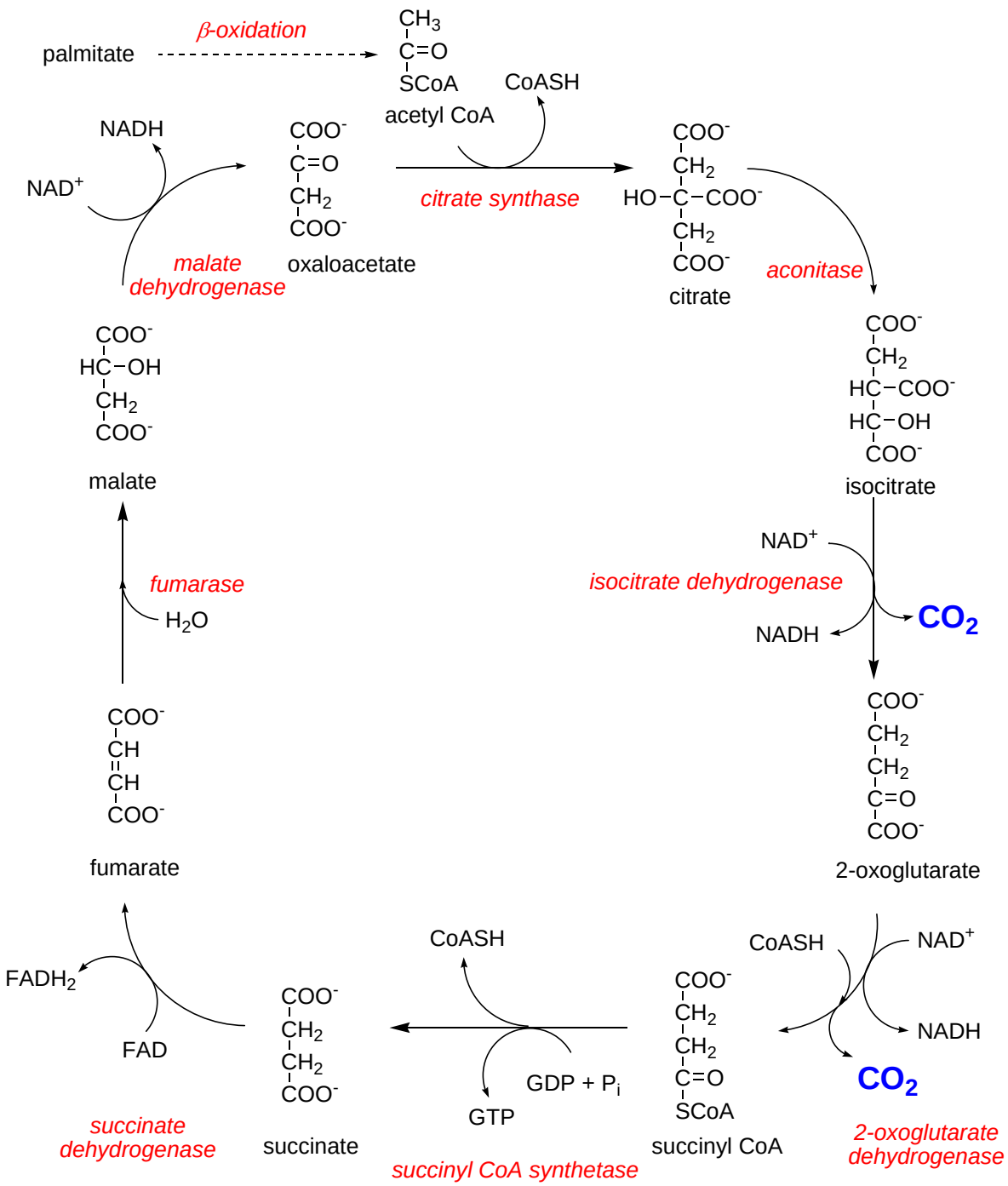
palmitate
β-oxidation
CH3
C=O
SCoA
acetyl CoA
CoASH
citrate synthase
COO-
CH2
HO−C−COO-
CH2
COO-
citrate
aconitase
COO-
CH2
HC−COO-
HC−OH
COO-
isocitrate
NAD+
isocitrate dehydrogenase
NADH
CO2
COO-
CH2
CH2
C=O
COO-
2-oxoglutarate
NAD+
NADH
CO2
2-oxoglutarate dehydrogenase
CoASH
COO-
CH2
CH2
C=O
SCoA
succinyl CoA
CoASH
GDP + Pi
GTP
succinyl CoA synthetase
COO-
CH2
CH2
COO-
succinate
FADH2
FAD
succinate dehydrogenase
COO-
CH
CH
COO-
fumarate
H2O
fumarase
COO-
HC−OH
CH2
COO-
malate
NADH
NAD+
malate dehydrogenase
COO-
C=O
CH2
COO-
oxaloacetate