

# Fatty acid oxidation overview

## Mitochondrial matrix

Carnitine palmitoyltransferase 1 (CPT1)

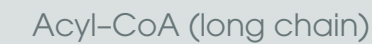


## Inner mitochondrial membrane

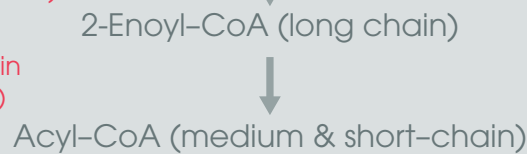
Carnitine palmitoyltransferase 2 (CPT2)



Acyl-CoA dehydrogenase (Very long-chain, VLCAD)



Trifunctional protein (HADHA; HADHB)



1 Acyl-CoA dehydrogenase



2 Enoyl-CoA hydratase



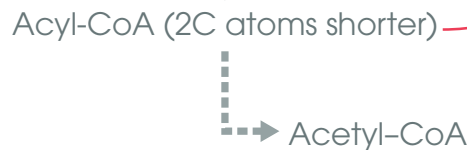
3 3-hydroxyacyl-CoA dehydrogenase



4 Beta-ketoacyl-CoA thiolase



Repeat



Key

- 1 Dehydrogenation
- 2 Hydration
- 3 Dehydrogenation
- 4 Thiolytic cleavage