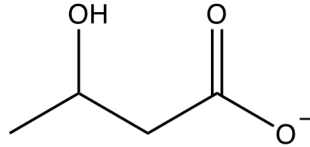


Your brain cannot use fatty acids from the bloodstream for energy. Compare the energetics of β -hydroxybutyrate metabolism to an acyl-CoA with the same number of carbon [acyl group = 4:0] to determine what the brain misses out on...

β -hydroxybutyrate



- a. Predicted number of redox reactions
- b. # of NADH produced
- c. # of FADH₂ produced
- d. # of CO₂ produced
- e. # of electrons transferred
- f. # of Q \rightarrow QH₂
- g. # of CytoC(Fe³⁺) \rightarrow CytoC(Fe²⁺)
- h. # of O₂ \rightarrow 2H₂O
- i. proton gradient
- j. ATP produced

Acyl-CoA [4:0]

- a. Draw Acyl-CoA [4:0]

- b. Predicted number of redox reactions
- c. # of NADH produced
- d. # of FADH₂ produced
- e. # of CO₂ produced
- f. # of electrons transferred
- g. # of Q \rightarrow QH₂
- h. # of CytoC(Fe³⁺) \rightarrow CytoC(Fe²⁺)
- i. # of O₂ \rightarrow 2H₂O
- j. proton gradient
- k. ATP produced