

Supplemental Table S15

Steady-state characteristics of the computer models

Boundary metabolite concentrations, steady-state acylcarnitine concentrations in the cytosol, CoASH concentration in the mitochondrial matrix and NADH production rate (equal to the mFAO rate) of the mouse and human liver mFAO model with competition after parameter estimation.

	Mouse	Human	Unit
<i>Boundary metabolite concentrations</i>			
Malonyl-CoA in cytosol	0	0	μM
Carnitine in cytosol	200	200	μM
CoA in cytosol	140	140	μM
Total CoA in mitochondria	5000	5000	μM
Total FAD in mitochondria	0.77	0.77	μM
FADH ₂	0.46	0.43	μM
Total NAD in mitochondria	250	250	μM
NADH	16	15.35	μM
Acetyl-CoA	70	21.14	μM
<i>Concentrations in steady state</i>			
C16AcylcarCYT	0.14	0.43	μM
C14AcylcarCYT	0.05	0.19	μM
C12AcylcarCYT	0.03	0.30	μM
C10AcylcarCYT	0.01	0.39	μM
C8AcylcarCYT	0.01	0.36	μM
C6AcylcarCYT	0.06	0.18	μM
C4AcylcarCYT	0.06	0.34	μM
CoASH	4888	4658	μM
<i>Flux in steady state</i>			
vnadhsink	0.008	0.006	$\mu\text{mol.min}^{-1}$ $\text{.mgMitoProtein}^{-1}$