



Recombinant Protein Technical Manual

Recombinant Human MCEE Protein (His Tag)

RPES4594

Product Data:

Product SKU: RPES4594

Size: 10 μ g

Species: Human

Expression host: Human Cells

Uniprot: Q96PE7

Protein Information:

Molecular Mass: 16.0 kDa

AP Molecular Mass: 18-20 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per μ g as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 μ m filtered solution of 20mM TrisHCl, 150mM NaCl, 1mM DTT, 10% Glycerol, pH 7.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Methylmalonyl-CoA epimerase; mitochondrial; DL-methylmalonyl-CoA racemase

Immunogen Information:

Sequence: Gln37-Ala176

Background:

Methylmalonyl-CoA epimerase, mitochondrial (MCEE) is an enzyme which belongs to the glyoxalase I family. It converts (S)-methylmalonyl-CoA to the (R) form, catalyses the following chemical reaction: (R)-methylmalonyl-CoA (S)-methylmalonyl-CoA. It plays an important role in the catabolism of fatty acids with odd-length carbon chains. This protein deficiency is an autosomal recessive inborn error of AA metabolism, involving valine, threonine, isoleucine and methionine. This organic aciduria can appear in the neonatal period with life-threatening metabolic acidosis, hyperammonemia, feeding difficulties, pancytopenia and coma.