

Recombinant Human Methylmalonyl CoA Epimerase, His-tagged

Cat. No. MCEE-801H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MCEE protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 17.3 kDa (161aa) confirmed by MALDI-TOF.
Species	Human
Source	E.coli
Description	MCEE catalyzes the interconversion of D- and L-methylmalonyl-CoA during the degradation of branched chain amino acids, odd chain-length fatty acids, and other metabolites. This protein deficiency is an autosomal recessive inborn error of amino acid metabolism, involving valine, threonine, isoleucine and methionine. This organic aciduria may present in the neonatal period with life-threatening metabolic acidosis, hyperammonemia, feeding difficulties, pancytopenia and coma.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MQVTGSVWNL GRLNHVAIAV PDLEKAAAFY KNILGAQVSE AVPLPEHGVS VVFNLGNTK MELLHPLGRD SPIAGFLQKN KAGGMHHICI EVDNINAAVM DLKKKKIRSL SEEVKIGAHG KPVIFLHPKD CGGVLVELEQ A
Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 1mM DTT, 0.1mM PMSF, 10% glycerol.

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Concentration 1 mg/ml (determined by Bradford assay).

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name MCEE methylmalonyl CoA epimerase [Homo sapiens]

Synonyms MCEE; methylmalonyl CoA epimerase; GLOD2; methylmalonyl-CoA epimerase, mitochondrial; DL-methylmalonyl-CoA racemase; glyoxalase domain containing 2; EC 5.1.99.1

Gene ID 84693

mRNA Refseq NM_032601

Protein Refseq NP_115990

MIM 608419

UniProt ID Q96PE7

Chromosome Location 2p13.3

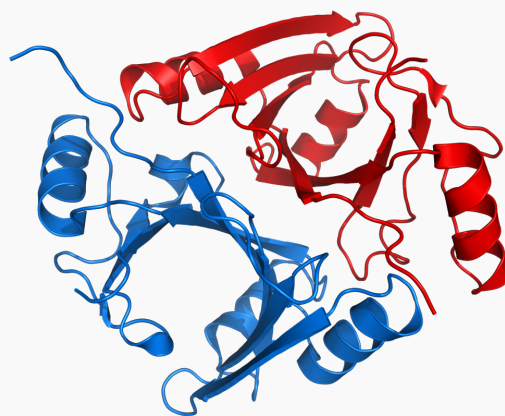
Pathway Metabolic pathways; Propanoate metabolism; Valine, leucine and isoleucine degradation

Function isomerase activity; methylmalonyl-CoA epimerase activity

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