

# Recombinant Human Methylmalonyl CoA Epimerase, His-tagged

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

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | 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.                                                                                                                                                                                                                                                                                          |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>              | 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. |
| <b>Sequences Of Amino Acids</b> | MGSSHHHHHH SSGLVPRGSH MQVTGSVWNL GRLNHVAIAV PDLEKAAAFY<br>KNILGAQVSE AVPLPEHGVS VVFNLGNTK MELLHPLGRD SPIAGFLQKN<br>KAGGMHHICI EVDNINAAVM DLKKKKIRSL SEEVKIGAHG KPVIFLHPKD<br>CGGVLVELEQ A                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>                   | > 90% by SDS – PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>                     | Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 1mM DTT, 0.1mM PMSF, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                            |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

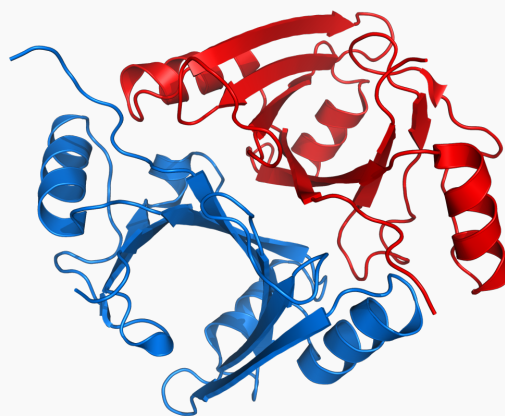
 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |                                                                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Concentration</b>       | 1 mg/ml (determined by Bradford assay).                                                                                                                          |
| <b>Storage</b>             | 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.            |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                  |
| <b>Gene Name</b>           | MCEE methylmalonyl CoA epimerase [ Homo sapiens ]                                                                                                                |
| <b>Synonyms</b>            | MCEE; methylmalonyl CoA epimerase; GLOD2; methylmalonyl-CoA epimerase, mitochondrial; DL-methylmalonyl-CoA racemase; glyoxalase domain containing 2; EC 5.1.99.1 |
| <b>Gene ID</b>             | 84693                                                                                                                                                            |
| <b>mRNA Refseq</b>         | NM_032601                                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_115990                                                                                                                                                        |
| <b>MIM</b>                 | 608419                                                                                                                                                           |
| <b>UniProt ID</b>          | Q96PE7                                                                                                                                                           |
| <b>Chromosome Location</b> | 2p13.3                                                                                                                                                           |
| <b>Pathway</b>             | Metabolic pathways; Propanoate metabolism; Valine, leucine and isoleucine degradation                                                                            |
| <b>Function</b>            | isomerase activity; methylmalonyl-CoA epimerase activity                                                                                                         |

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