

# Recombinant human MCEE protein

Catalog Number: ATGP0752

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

37-176aa

### UniProt No.

Q96PE7

### NCBI Accession No.

NP\_115990

### Alternative Names

Methylmalonyl CoA epimerase, DL methylmalonyl CoA racemase, EC 5.1.99.1, GLOD2, Glyoxalase domain containing 2

## PRODUCT SPECIFICATION

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### Molecular Weight

17.3 kDa (161aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 1mM DTT, 0.1mM PMSF, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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. Recombinant human MCEE protein, fused to His-tag at N-terminus,

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was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MQVTGSVWNL GRLNHVAIAV PDLEKAAAFY KNILGAQVSE AVPLPEHGVS VVFNVLGNTK  
MELLHPLGRD SPIAGFLQKN KAGGMHHICI EVDNINAAVM DLKKKIRSL SEEVKIGAHG KPVIFLHPKD CGGVLVELEQ A

### General References

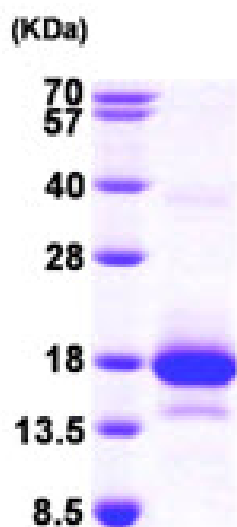
Yang GE., et al. (2009) Appl Biochem Biotechnol. 152(3):353-65.

Gradinger AB., et al. (2007) Hum Mutat. 28(10):1045.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)