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Recombinant human MCEE protein

Catalog Number: ATGP0752

PRODUCT INFORMATION

Expression system

E.coli

Domain

37-176aa

UniProt No.

096PE7

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

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

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 SSGLVPRGSH MQVTGSVWNL GRLNHVAIAV PDLEKAAAFY KNILGAQVSE AVPLPEHGVS VVFVNLGNTK MELLHPLGRD SPIAGFLQKN KAGGMHHICI EVDNINAAVM DLKKKKIRSL 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



15% SDS-PAGE (3ug)

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