
Product Data Sheet

Product Name: MCEE Human
 Cat. No.: GP21904
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GLOD2; Methylmalonyl CoA Epimerase; Glyoxalase Domain Containing 2; DL-methylmalonyl-CoA Racemase.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MQVTGSVWNL GRLNHVAIAV PDLEKAAAFY KNILGAQVSE AVPLPEHGVS VVFNVLGNTK MELLHPLGRD SPIAGFLQKN KAGGMHHICI EVDNINAAVM DLKKKKIRSL SEEVKIGAHG KPVIFLHPKD CGGVLVELEQ A		
Formulation	The MCEE protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 1mM DTT, 0.1mM PMSF and 10% glycerol.		

Introduction

MCEE catalyzes the interconversion of D- and L-methylmalonyl-CoA throughout the degradation of branched chain amino acids, odd chain-length fatty acids, and other metabolites. MCEE protein deficiency is an autosomal recessive inborn error of amino acid 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

MCEE produced in E.Coli is a single, non-glycosylated polypeptide chain containing 161 amino acids (37-176a.a.) and having a molecular mass of 17.3kDa. MCEE is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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