
Product Data Sheet

Product Name: HMGCL Human, Sf9

Cat. No.: GP21793

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	3-Hydroxymethyl-3-Methylglutaryl-CoA Lyase; 3-Hydroxymethyl-3-Methylglutaryl-Coenzyme A Lyase; 3-Hydroxy-3-Methylglutarate-CoA Lyase; Hydroxymethylglutaricaciduria; HMG-CoA Lyase; EC 4.1.3.4; HL; Mitochondrial 3-Hydroxy-3-Methylglutaryl-CoA Lyase; Hydroxymethylglutaryl-CoA Lyase; Mitochondrial; 3-Hydroxy-3-Methylglutaryl-CoA Lyase; Hydroxymethylglutaryl-CoA lyase; mitochondrial; HMG-CoA lyase; 3-hydroxy-3-methylglutarate-CoA lyase.		
Amino Acid Sequence	MTLPKRVKIV EVGPRDGLQN EKNIVSTPVK IKLIDMLSEA GLSVIETTSF VSPKWVPMQMG DHTEVLKGIQ KFPGINYPVL TPNLKGFEAA VAAGAKEVVI FGAASELFTK KNINCSIEES FQRFDAILKA AQSANISVRG YVSCALGCPY EGKISPAKVA EVTKKFYSMG CYEISLGDTI GVGTPGIMKD MLSAVMQEVP LAALAVHCHD TYGQALANTL MALQMGVSVV DSSVAGLGGC PYAQGASGNL ATEDLVYMLE GLGIHTGVNL QKLLEAGNFI CQALNRKTSS KVAQATCKLH HHHHH.		
Formulation	HMGCL protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4), 20% glycerol and 1mM DTT.		

Introduction

Hydroxymethylglutaryl-CoA lyase (HMGCL) is a mitochondrial matrix protein which is a member of the HMG-CoA lyase family. HMGCL is a homodimer and participates in leucine catabolism and ketogenesis, the hepatic synthesis of ketone bodies which, during fasting, provides a major source of energy for the heart, brain and kidney. More precisely, HMGCL catalyzes the final step of these processes, the cleavage of 3-hydroxy-3-methylglutaryl-CoA to acetoacetic acid and acetyl-CoA.

Stability

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

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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

HMGCL Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 305 amino acids (28-325 a.a.) and having a molecular mass of 32.5kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). HMGCL is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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