

32-6803: HMGCL Human, Sf9

Alternative Name :

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.

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

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.

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.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	HMGCL protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4), 20% glycerol and 1mM DTT.
Storage condition :	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.
Amino Acid :	MTLPKRVKIV EVGPRDGLQN EKNIVSTPVK IKLIDMLSEA GLSVIETTSF VSPKWVPQMG DHTEVLKGIQ KFPGINYPVL TPNLKGFEAA VAAGAKEVVI FGAASELFTK KNINCSIEES QRFDAILKA AQSANISVRG YVSCALGCPY EGKISPAKVA EVTKKFYSMG CYEISLGDIT GVGTPGIMKD MLSAVMQEVP LAALAVHCHD TYGQALANTL MALQMGVSVV DSSVAGLGGC PYAQGASGNL ATEDLVYMLE GLGIHTGVNL QKLEAGNFI CQALNRKTSS KVAQATCKLH HHHHH.