

Recombinant Human HMGCL Protein, His-tagged

Cat. No. HMGCL-211H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HMGCL(28-325aa) fused with His tag at C-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	28-325aa
Description	HMGCL, also known as hydroxymethylglutaryl-CoA lyase, mitochondrial isoform 1, is a mitochondrial matrix protein that belongs to the HMG-CoA lyase family. It is a mitochondrial enzyme that catalyzes the final step of leucine degradation and plays a key role in ketone body formation. Multiple isoforms of the proteins are known due to alternative splicing. The major isoform (isoform 1) is most highly expressed in the liver whereas isoform 2 is found in energy-demanding tissues including the brain, heart, and skeletal muscle.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT.
Molecular Mass	32.5kDa (305aa) 28-40KDa (SDS-PAGE under reducing conditions.)
AA Sequence	MTLPKRVKIV EVGPRDGLQN EKNIVSTPVK IKLIDMLSEA GLSVIETTSF VSPKWVPQMG DHTEVLKGIQ KFPGINYPVL TPNLKGFEAA VAAGAKEVVI FGAASELFTK KNINCSIEES FQRFDAILKA AQSANISVRG YVSCALGCPY EGKISPAKVA EVTKKFYSMG CYEISLGDTI

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GVGTPGIMKD MLSAVMQEVP LAALAVHCHD TYGQALANTL MALQMGVSVV
DSSVAGLGGC PYAQGASGNL ATEDLVYMLE GLGIHTGVNL
QKLLEAGNFI CQALNRKTSS KVAQATCKLH HHHHH

Purity > 90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name HMGCL 3-hydroxymethyl-3-methylglutaryl-CoA lyase [Homo sapiens]

Official Symbol HMGCL

Synonyms HMGCL; 3-hydroxymethyl-3-methylglutaryl-CoA lyase; 3 hydroxymethyl 3 methylglutaryl Coenzyme A lyase; hydroxymethylglutaryl-CoA lyase, mitochondrial; HL; hydroxymethylglutaricaciduria; HMG-CoA lyase; 3-hydroxy-3-methylglutaryl-CoA lyase; 3-hydroxy-3-methylglutarate-CoA lyase; 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase; mitochondrial 3-hydroxy-3-methylglutaryl-CoA lyase;

Gene ID 3155

mRNA Refseq NM_000191

Protein Refseq NP_000182

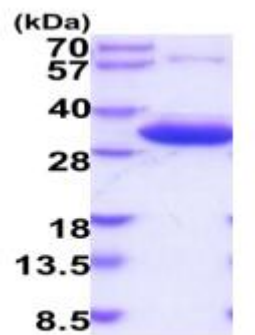
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MIM 613898

UniProt ID P35914



15% SDS-PAGE (3ug)

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