

Recombinant human HMGCL protein

Catalog Number: ATGP3658

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

28-325aa

UniProt No.

P35914

NCBI Accession No.

NP_000182

Alternative Names

Hydroxymethylglutaryl-CoA lyase, mitochondrial isoform 1, HMGCL, HL

PRODUCT SPECIFICATION

Molecular Weight

32.5 kDa (305aa)

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

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

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

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is found in energy-demanding tissues including the brain, heart, and skeletal muscle. Recombinant human HMGCL protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

MTLPKRVKIV EVGPRDGLQN EKNIVSTPVK IKLIDMLSEA GLSVIETTSF VSPKWVPQMG DHTEVLKGIQ KFPGINYPVL
TPNLKGFEAA VAAGAKEVVI FGAASELFTK KNINCSIEES FQRFDAILKA AQSANISVRG YVSCALGCPY EGKISPAKVA
EVTKKFYSMG CYEISLGDIT GVGTPGIMKD MLSAVMQEVP LAALAVHCHD TYGQALANTL MALQMGVSVV DSSVAGLGGC
PYAQGASGNL ATEDLVYMLE GLGIHTGVNL QKLLEAGNFI CQALNRKTSS KVAQATCKL<H HHHHH>

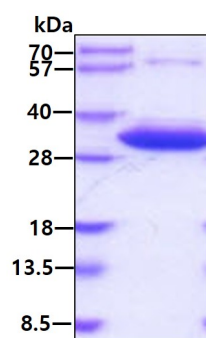
General References

Fu Z., et al, (2010) J Biol Chem. 285:26341-26349.

Montgomery C., et al, (2011) Arch Biochem Biophys. 511:48-55.

DATA

SDS-PAGE



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