

Product information

HMGCL, 28-325aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1345

Full name: Hydroxymethylglutaryl-CoA lyase

NCBI Accession No.: NP_000182

Synonyms: HL

Description: HMGCL, also known as hydroxymethylglutaryl-CoA lyase, is a mitochondrial matrix protein that belongs to the HMG-CoA lyase family. It exists as a homodimer and participates in leucine catabolism and ketogenesis, the hepatic synthesis of ketone bodies that, during fasting, provide a major source of energy for heart, brain and kidney. More specifically, it catalyzes the final step of these processes, the cleavage of 3-hydroxy-3-methylglutaryl-CoA to acetoacetic acid and acetyl-CoA. Recombinant human HMGCL protein, fused to His-tag at N-terminus, was expressed in *E.coli*.

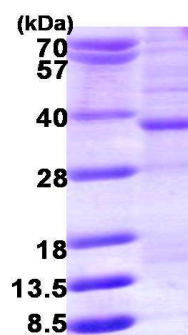
Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol

0.4M Urea

Molecular Weight: 34.2 kDa (323aa)

Purity: > 85% by SDS - PAGE

Concentration: 1.0 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSHTLPKR VKIVEVGPRD GLQNEKNIVS TPVKIKLIDM LSEAGLSVIE TTSFVSPKWV PQMGDHTVEL
KGIQKFPGIN YPVLTPNLKG FEAAVAAGAK EVVIFGAASE LFTKKNINCS IEESFQRFDA ILKAAQSANI SVRGYVSCAL GCPYEGKISP
AKVAEVTKKF YSMGCYEISL GDTIGVGTPG IMKDMLSAVM QEVPLAALAV HCHDTYGGAL ANTLMALQMG VSVVDSSVAG LGGCPYAQGA
SGNLATEDLV YMLEGLGIHT GVNQLKLLEA GNFIQALNR KTSSKVAQAT CKL

General references:

Cardoso M.L. *et al.* (2004) *Mol. Genet. Metab.* 82: 334-338.

Wang S.P *et al.* (1996) *Genomics* 33: 99-104.

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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.