

HMGCL, 28-325aa, Human, His tag, E.coli

Cat.NO.: TP02471

3th Edition

Synonyms:Hydroxymethylglutaryl-CoA lyase, 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.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea

Molecular Weight:34.2 kDa (323aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSHMTLPKRVKIVEVGPRDGLQNEKNIVSTPVKIKLIDMLSEAGLSVIETTSFVSP
KWVPQMGDHTVLKGIQKFPGINYPVLTPNLKGFEAAVAAGAKEVVIFGAASELFTKKNINCSIEESFQRFDAILKAA
QSANISVRGYVSCALGCPYEGKISPAKVAEVTKKFYSMGCYEISLGDITGVGTPGIMKDMLSAVMQEVPLAALAVHC
HDTYGQALANTLMALQMGSVVDSSVAGLGGCPYAQGASGNLATEDLVYMLEGLGIHTGVNLQKLLEAGNFICQA
LNRKTSSKVAQATCKL

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.