

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

**Cat.NO.: TP02471**

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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:**

MGSSHHHHHSSGLVPRGSHMGSHMTLPKRVKIVEVGPRDGLQNEKNIVSTPVKIKLIDMLSEAGLSVIETTSFVSP  
KWVPQMGDHTTEVLKGIQKFPGINYPVLTPLNLKGFEAAVAAGAKEVVIFGAASELFTKKNINCSIEESFQRFDAILKAA  
QSANISVRGYVSCALGCPYEGKISPAKVAEVTKKFYSMGCYEISLGDTIGVGTGPGIMKDMLSAVMQEVPLAALAVHC  
HDTYGQALANTLMALQMGVSVVDSSVAGLGGCPYAQGASGNLATEDLVYMLEGLGIHTGVNLQKLLLEAGNFICQA  
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.