# NKMAXBIO We support you, we believe in your research

## Recombinant human HMGCL protein

Catalog Number: ATGP1345

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

28-325aa

#### UniProt No.

P35914

#### **NCBI Accession No.**

NP 000182

#### **Alternative Names**

Hydroxymethylglutaryl-CoA lyase, 3-hydroxy-3-methylglutarate-CoA lyase, HL, HMG-CoA lyase, Hydroxymethylglutaryl-CoA lyase mitochondrial

#### PRODUCT SPECIFICATION

#### **Molecular Weight**

34.2 kDa (323aa)

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

#### **Purity**

> 85% by SDS-PAGE

#### 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, 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



## NKMAXBio We support you, we believe in your research

## **Recombinant human HMGCL protein**

Catalog Number: ATGP1345

N-terminus, was expressed in E. coli.

### **Amino acid Sequence**

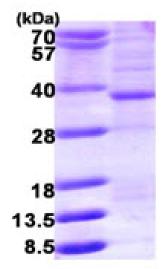
MGSSHHHHHH SSGLVPRGSH MGSHMTLPKR VKIVEVGPRD GLQNEKNIVS TPVKIKLIDM LSEAGLSVIE TTSFVSPKWV PQMGDHTEVL KGIQKFPGIN YPVLTPNLKG FEAAVAAGAK EVVIFGAASE LFTKKNINCS IEESFQRFDA ILKAAQSANI SVRGYVSCAL GCPYEGKISP AKVAEVTKKF YSMGCYEISL GDTIGVGTPG IMKDMLSAVM QEVPLAALAV HCHDTYGQAL ANTLMALQMG VSVVDSSVAG LGGCPYAQGA SGNLATEDLV YMLEGLGIHT GVNLQKLLEA GNFICQALNR 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.

## **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

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

