

Recombinant human HMGCS1 protein

Catalog Number: ATGP3079

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-520aa

UniProt No.

Q01581

NCBI Accession No.

NP_001091742

Alternative Names

Hydroxymethylglutaryl-CoA synthase cytoplasmic, Hydroxymethylglutaryl-CoA synthase, cytoplasmic, HMGCS

PRODUCT SPECIFICATION

Molecular Weight

59.7 kDa (543aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity

> 80% 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

HMGCS1 also known as hydroxymethylglutaryl-CoA synthase, cytoplasmic. This enzyme condenses acetyl-CoA with acetoacetyl-CoA to form HMG-CoA, which is the substrate for HMG-CoA reductase. Recombinant human HMGCS1 was expressed in E. coli and purified by using conventional chromatography techniques

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSMPGSLPL NAEACWPKDV GIVALEIYFP SQYVDQAELE KYDGVVDAGKY TIGLGQAKMG
FCTDREDINS LCMTVVQQLM ERNNSYDCI GRLEVGTETI IDKSKSVKTN LMQLFEESGN TDIEGIDTTN ACYGGTAAVF

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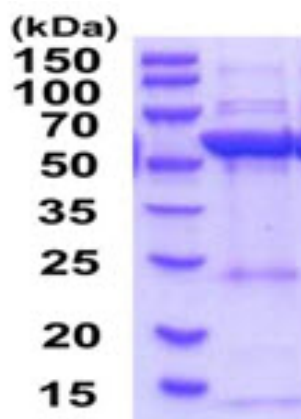
NAVNWIESS WDGRYALVVA GDIAYVATGN ARPTGGVGAV ALLIGNAPL IFERGLRGTH MQHAYDFYKP DMLSEYPIVD
GKLSIQCYLS ALDRCYSVYC KKIHAQWQKE GNDKDFLND FGFMIHSPY CKLVQKSLAR MLLNDFLNDQ NRDKNSIYSG
LEAFGDVKLE DTYFDRDVEK AFMKASSELF SQTKASLLV SNQNGNMYTS SVYGSLASVL AQYSPQQLAG KRIGVFSYGS
GLAATLYSLK VTQDATPGSA LDKITASLCD LKRLDSRTG VAPDVFAENM KLREDTHHLV NYIPQGSIDS LFEGTWYLVR
VDEKRRRTYA RRPTNDDTL DEGVLVHNS IATEHIPSPA KKVPRLPATA AEPEAAVISN GEH

General References

Rigbolt K.T., et al. (2011) *Sci. Signal.* 4:RS3-RS3.
Burkard T.R., et al. (2011) *BMC Syst. Biol.* 5:17-17.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)