

Recombinant Human HMGCS1, His-tagged

Cat. No. HMGCS1-59H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HMGCS1 was expressed in E.coli and purified by using conventional chromatography techniques
Species	Human
Source	E.coli
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.
Form	Liquid. In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT
Molecular Mass	59.7kDa (543aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMPGSLPL NAEACWPKDV GIVALEIYFP SQYVDQAELE KYDGVDAKGY TIGLGQAKMG FCTDREDINS LCMTVVQNLN ERNNLSYDCI GRLEVGTETI IDKSKSVKTN LMQLFEESGN TDIEGIDTTN ACYGGTAAVF NAVNWISSS WDRYALVVA GDIAYATGN ARPTGGVGAV ALLIGNAPL IFERGLRGTH MQHAYDFYKP DMLSEYPIVD GKLSIQCYLS ALDRCYSVYC KKIHAQWQKE GNDKDFTLND FGFMIHSPY CKLVQKSLAR MLLNDFLNDQ NRDKNISYSG LEAFGDVKLE DTYFDRDVEK AFMKASSELF SQKTKASLLV SNQNGNMYTS SVYGLASVL AQYSPQQLAG KRIGVFSYGS GLAATLYSLK VTQDATPGSA LDKITASLCD LKSRLDSRTG VAPDVFAENM KLREDTHHLV NYIPQGSIDS LFEGTWYLVV RDEKHRRTYA RRPTPNDDTL

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DEGVGLVHSN IATEHIPSPA KKVPRLPATA AEPEAAVISN GEH

Purity >80% by SDS - PAGE

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

Concentration 0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [HMGCS1 3-hydroxy-3-methylglutaryl-CoA synthase 1 \(soluble\) \[Homo sapiens \]](#)

Official Symbol HMGCS1

Synonyms HMGCS1; 3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble); 3 hydroxy 3 methylglutaryl Coenzyme A synthase 1 (soluble) , HMGCS; hydroxymethylglutaryl-CoA synthase, cytoplasmic; 3 hydroxy 3 methylglutaryl coenzyme A (HMG CoA) synthase; HMG-CoA synthase; 3-hydroxy-3-methylglutaryl coenzyme A synthase; 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) synthase; 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble); HMGCS; MGC90332;

Gene ID [3157](#)

mRNA Refseq [NM_001098272](#)

Protein Refseq [NP_001091742](#)

MIM [142940](#)

UniProt ID [Q01581](#)

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Chromosome Location	5p14-p13
Pathway	Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem; C5 isoprenoid biosynthesis, mevalonate pathway, organism-specific biosystem; C5 isoprenoid biosynthesis, mevalonate pathway, conserved biosystem; Cholesterol Biosynthesis, organism-specific biosystem; Cholesterol biosynthesis, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem;
Function	catalytic activity; drug binding; hydroxymethylglutaryl-CoA synthase activity; isomerase activity; organic acid binding; protein homodimerization activity; transferase activity;

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