

Recombinant Human HMGCS1 protein, His-tagged

Cat. No. HMGCS1-45H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HMGCS1(Ser293~Ala467) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser293~Ala467
Description	HMGCS1 played an important role in many functions.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	23.1kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

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Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.
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
Chromosome Location	5p14-p13

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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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