

Recombinant Full Length Human HMGCS2 Protein, GST-tagged

Cat. No. HMGCS2-3649HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HMGCS2 full-length ORF (NP_005509.1, 1 a.a. - 508 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	508 amino acids
Description	Mitochondrial 3-hydroxy-3-methylglutaryl CoA synthase (HMGCS2; EC 2.3.3.10) mediates the first reaction of ketogenesis, a metabolic pathway that provides lipid-derived energy for brain, heart, kidney, and other organs during times of carbohydrate deprivation such as fasting (Robinson and Williamson, 1980 [PubMed 6986618]). Also see cytoplasmic HMG-CoA synthase (HMGCS1; MIM 142940), which mediates an early step in cholesterol synthesis.[supplied by OMIM
Molecular Mass	83 kDa
AA Sequence	MQRLLTPVKRILQLTRAVQETSLTPARLLPVAHQRFSTASAVPLAKTDTWPKDVGILA LEVYFPAQYVDQTDLEKYNNVEAGKYTVGLGQTRMGFCSVQEDINSLCLTVVQRLM ERIQLPWDSVGRLEVGTETIIDKSKAVKTVLMELFQDSGNTDIEGIDTTNACYGGTAS LFNAANWMESSWDGRYAMVVCVDIAVYPSGNARPTGGAGAVAMLIGPKAPLALE RGLRGTHMENVYDFYKPNLASEYPIVDGKLSIQCYLRALDRCYTSYRKKIQNQWKQ AGSDRPFTLDDLQYMIFHTPFCKMVQKSLARLMFNDFLSASSDTQTSLYKGLEAFG

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GLKLEDTYTNKDLDKALLKASQDMFDKKTASLYLSTHNGNMYTSSLYGCLASLLSH
HSAQELAGSRIGAFSYGSGLAASFFSFRVSQDAAPGSPDKLVSSSTSDLPKRLASRK
CVSPEEFTEIMNQREQFYHKVNFSPPGDTNSLFPGTWYLERVDEQHRRKYARRPV

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	HMGCS2 3-hydroxy-3-methylglutaryl-CoA synthase 2 (mitochondrial) [Homo sapiens]
Official Symbol	HMGCS2
Synonyms	HMGCS2; 3-hydroxy-3-methylglutaryl-CoA synthase 2 (mitochondrial); 3 hydroxy 3 methylglutaryl Coenzyme A synthase 2 (mitochondrial); hydroxymethylglutaryl-CoA synthase, mitochondrial; HMG-CoA synthase; 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial);
Gene ID	3158
mRNA Refseq	NM_001166107

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Protein Refseq NP_001159579

MIM 600234

UniProt ID P54868

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