

Recombinant Human HMGCS2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HMGCS2-3611H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HMGCS2 MS Standard C13 and N15-labeled recombinant protein (NP_005509) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene belongs to the HMG-CoA synthase family. It is a mitochondrial enzyme that catalyzes the first reaction of ketogenesis, a metabolic pathway that provides lipid-derived energy for various organs during times of carbohydrate deprivation, such as fasting. Mutations in this gene are associated with HMG-CoA synthase deficiency. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	56.6 kDa
AA Sequence	MQRLLTPVKRILQLTRAVQETSLTPARLLPVAHQRFSTASAVPLAKTDTWPKDVGILA LEVYFPAQYVDQTDLEKYNNVEAGKYTVGLGQTRMGFCSVQEDINSLCLTVVQRLM ERIQLPWDSVGRLEVGTETIIDKSKAVKTVLMELFQDSGNTDIEGIDTTNACYGGTAS LFNAANWMESSWDGRYAMVVCGLIAVYPSGNARPTGGAGAVAMLIGPKAPLALE RGLRGTHMENVYDFYKPNLASEYPIVDGKLSIQCYLRALDRCYTSYRKKIQNQWKQ AGSDRPFTLDDLQYMIFHTPFCKMVQKSLARLMFNDFLSASSDTQTSLYKGLEAFG GLKLEDYTNKDLDKALLKASQDMFDKKTASLYLSTHNGNMYTSSLYGCLASLLSH

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HSAQELAGSRIGAFSYGSGLAASFFSFRVSQDAAPGSPLDKLVSSTSDLPKRLASRK
CVSPPEEFTEIMNQREQFYHKVNFSPPGDTNSLFPGTWYLERVDEQHRRKYARRPV
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name HMGCS2 3-hydroxy-3-methylglutaryl-CoA synthase 2 [Homo sapiens (human)]

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_005518

Protein Refseq NP_005509

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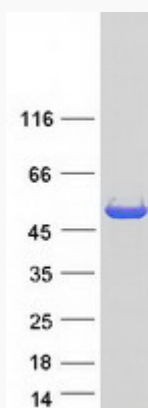
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MIM 600234

UniProt ID P54868

SDS-PAGE



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