

Recombinant Full Length Human HMGCS2 Protein, C-Flag-tagged

Cat. No. HMGCS2-1766HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HMGCS2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	52.3 kDa
AA Sequence	MQRLLTPVKRILQLTRAVQETSLTPARLLPVAHQRFSTASAVPLAKTDTWPKDVGILA LEVYFPAQYVDQ TDLEKYNNVEAGKYTVGLGQTRMGFCSVQEDINSLCLTVVQRL MERIQLPWDSVGRLEVGTETIIDKSKA VKTVLMELFQDSGNTDIEGIDTTNACYGGT ASLFNAANWMESSWDGRYAMVVCGLDIAYVPSGNARPTGG AGAVAMLIQPKAPLA LERGLRGTHMENVYDFYKPNLASEYPIVDGKLSIQCYLRALDRCYTSYRKKIQNQ W KQAGSDRPFTLDDLQYMIFHTPFCKMVQKSLARLMFNDFLSASSDTQTSLYKGGLEAF

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GGLKLEDYTNK DLDKALLKASQDMFDKKTASLYLSTHNGNMYTSSLYGCLASLL
SHHSAQELAGSRIGAFSYGSGLAASF FSFRVSQDAAPGSPLDKLVSSTSDLPKRLA
SRKCVSPPEEFTEIMNQREQFYHKVNFSPPGDTNSLFPGTW YLERVDEQHRRKYAR
RPV TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Butanoate metabolism, Metabolic pathways, PPAR signaling pathway, Synthesis and degradation of ketone bodies, Terpenoid backbone biosynthesis, Valine, leucine and isoleucine degradation
Full Length	Full L.

GENE INFORMATION

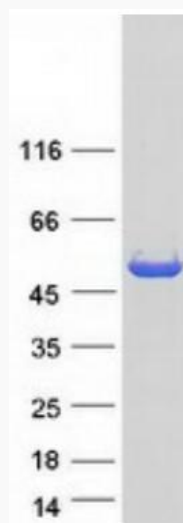
Gene Name	HMGCS2 3-hydroxy-3-methylglutaryl-CoA synthase 2 [Homo sapiens (human)]
Official Symbol	HMGCS2

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Synonyms	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial); hydroxymethylglutaryl-CoA synthase 2; OTTHUMP00000013928
Gene ID	3158
mRNA Refseq	NM_005518.4
Protein Refseq	NP_005509.1
MIM	600234
UniProt ID	P54868



Coomassie blue staining of purified HMGCS2 protein.