

Recombinant Human HMGCS2 Protein T91A Mutant, His tagged

Cat. No. HMGCS2-135H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human HMGCS2 Protein T91A Mutant with His tag was expressed in E. coli.
Species	Human
Source	E. coli
ProteinLength	1-466 aa, T91A
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.
AASequence	MHHHHHHENLYFQGAIAMQRLLPVVKRILQLTRAVQETSLTPARLLPVAHQRFSTAS AVPLAKTDTWPKDVGILALEVYFPAQYVDQTDLEKYNNEAGKYTVGLGQARMGFC SVQEDINSLCLTVVQRLMERIQLPWDSVGRLEVGTETIIDKSKAVKTVLMELFQDSGN TDIEGIDTTNACYGGTASLFNAANWMESSWDGLRGTHMENVYDFYKPNLASEYPI VDGKLSIQCYLRALDRCYTSYRKKIQNQWKQAGSDRPFTLDDLQYMIFHTPFCKMV QKSLARLMFNDFLSASSDTQTSLYKGLEAFGGLKLEDTYTNKDLDKALLKASQDMFD KKTkaslylsthngnmytsslygcllasllshhsaqelagsrigafsygsclaasffs

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FRVSQDAAPGSPLDKLVSSTSDLPKRLASRKCVSPEEFTEIMNQREQFYHKVNFSP
PGDTNSLFPGTWYLERVDEQHRRKYARRPVTR

Molecular Mass 55 kDa

Purity > 90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer Sterile 50mM Tris, pH 8.5, 200mM NaCl

Concentration 0.15 mg/mL by BCA

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; hydroxymethylglutaryl-CoA synthase, mitochondrial; 3-hydroxy-3-methylglutaryl-CoA synthase 2 (mitochondrial); 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial); HMG-CoA synthase; testicular tissue protein Li 88; EC 2.3.3.10

Gene ID 3158

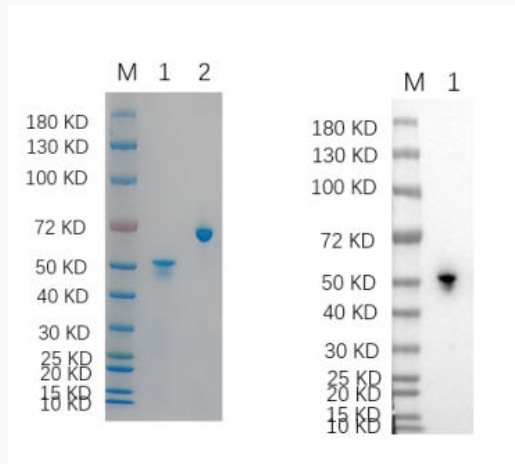
mRNA Refseq NM_005518

Protein Refseq NP_005509

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MIM 600234**UniProt ID** P54868**SDS-PAGE and WB**

Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified HMGCS2 T91A. 1. HMGCS2 T91A: 1 ug 2. BSA: 1 ug

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