Recombinant Human HMGCS2 Protein T91D Mutant, His tagged

Cat. No. HMGCS2-136H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HMGCS2 Protein T91D Mutant with His tag was expressed in E. coli.
Species	Human
Source	E. coli
ProteinLength	1-466 aa, T91D
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	MHHHHHHENLYFQGAIAMQRLLTPVKRILQLTRAVQETSLTPARLLPVAHQRFSTAS AVPLAKTDTWPKDVGILALEVYFPAQYVDQTDLEKYNNVEAGKYTVGLGQDRMGFC SVQEDINSLCLTVVQRLMERIQLPWDSVGRLEVGTETIIDKSKAVKTVLMELFQDSGN TDIEGIDTTNACYGGTASLFNAANWMESSSWDGLRGTHMENVYDFYKPNLASEYPI VDGKLSIQCYLRALDRCYTSYRKKIQNQWKQAGSDRPFTLDDLQYMIFHTPFCKMV QKSLARLMFNDFLSASSDTQTSLYKGLEAFGGLKLEDTYTNKDLDKALLKASQDMFD KKTKASLYLSTHNGNMYTSSLYGCLASLLSHHSAQELAGSRIGAFSYGSGLAASFFS

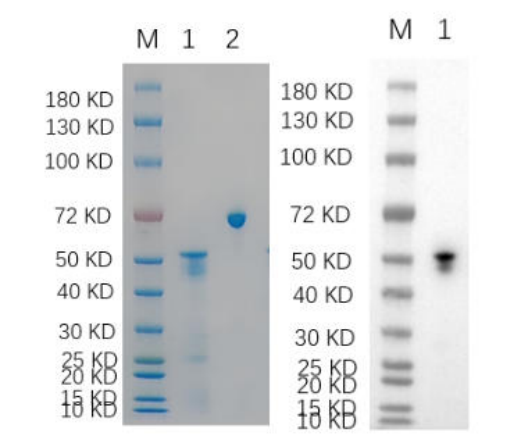
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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, pH8.5, 200mM NaCl
Concentration	0.21 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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 T91D. 1. HMGCS2 T91D: 1 μg 2. BSA: 1 μg

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA