

Product datasheet for **TP308128**

HMGC2 (NM_005518) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial) (HMGC2), nuclear gene encoding mitochondrial protein, 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC208128 protein sequence
Red=Cloning site **Green**=Tags(s)

MQRLLTPVKRILQLTRAVQETSLTPARLLPVAHQRFSTASAVPLAKTDTWPKDVGILALEVYFPAQYVDQ
TDLEKYNVVEAGKYTVGLGQTRMGFCSVQEDINSLCLTVVQRLMERIQLPWDSVGRLEVGTETIIDKSKA
VKTVLMELFQDSGNTDIEGIDTTNACYGGTASLFNAANWMESSWDGRYAMVCGDIADVPSGNARPTGG
AGAVAMLIGPKAPLALERGLRGTHMENVYDFYKPNLASEYPIVDGKLSIQCYLRALDRCYTSYRKKIQNQ
WKQAGSDRPFTLDDLQYMIFHTPFCKMVQKSLARLMFNDFLSASSDTQTSLYKGLEAFGGLKLEDYTNK
DLDKALLKASQDMFDKKTASLYLSTHNGNMYTSSLYGCLASLLSHHSAQELAGSRIGAFSYGSGLAASF
FSFRVSDAAGSPLDKLVSSSTDLPKRLASRKCVSPEEFTEIMNQREQFYHKVNFSPPGDNTSLFPGTW
YLERVDEQHRRKYARRPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 52.3 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

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

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

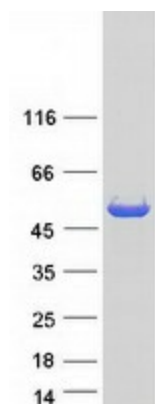
Storage: Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_005509
Locus ID:	3158
UniProt ID:	P54868
RefSeq Size:	2477
Cytogenetics:	1p12
RefSeq ORF:	1524
Summary:	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.[provided by RefSeq, Oct 2009]
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

Product images:



Coomassie blue staining of purified HMGCS2 protein (Cat# TP308128). The protein was produced from HEK293T cells transfected with HMGCS2 cDNA clone (Cat# [RC208128]) using MegaTran 2.0 (Cat# [TT210002]).