

Recombinant Human HMGCS2 cell lysate

Cat. No. HMGCS2-804HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	Mitochondrial 3-hydroxy-3-methylglutaryl CoA synthase (HMGCS2; EC 2.3.3.10) mediates the first reaction of ketogenesis, a metabolic pathway that provides lipid-derived energy for brain, heart, kidney, and other organs during times of carbohydrate deprivation such as fasting (Robinson and Williamson, 1980 [PubMed 6986618]). Also see cytoplasmic HMG-CoA synthase (HMGCS1; MIM 142940), which mediates an early step in cholesterol synthesis.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

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

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	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_001166107
Protein Refseq	NP_001159579
MIM	600234
UniProt ID	P54868
Chromosome Location	1p13-p12
Pathway	Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem; C5 isoprenoid biosynthesis, mevalonate pathway, organism-specific biosystem; C5 isoprenoid biosynthesis, mevalonate pathway, conserved biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Ketone body metabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
Function	hydroxymethylglutaryl-CoA synthase activity; transferase activity;