

## Recombinant Human HMGCS2 cell lysate

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

### SPECIFICATION

<b>Species</b>	Human
<b>Description</b>	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.
<b>Size</b>	100 ul
<b>Storage Buffer</b>	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
<b>Applications</b>	Western Blot;

### GENE INFORMATION

<b>Gene Name</b>	HMGCS2 3-hydroxy-3-methylglutaryl-CoA synthase 2 (mitochondrial) [ Homo sapiens ]
<b>Official Symbol</b>	HMGCS2
<b>Synonyms</b>	HMGCS2; 3-hydroxy-3-methylglutaryl-CoA synthase 2 (mitochondrial); 3 hydroxy 3 methylglutaryl Coenzyme A synthase 2 (mitochondrial); hydroxymethylglutaryl-CoA

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	synthase, mitochondrial; HMG-CoA synthase; 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial);
<b>Gene ID</b>	<a href="#">3158</a>
<b>mRNA Refseq</b>	<a href="#">NM_001166107</a>
<b>Protein Refseq</b>	<a href="#">NP_001159579</a>
<b>MIM</b>	<a href="#">600234</a>
<b>UniProt ID</b>	<a href="#">P54868</a>
<b>Chromosome Location</b>	1p13-p12
<b>Pathway</b>	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;
<b>Function</b>	hydroxymethylglutaryl-CoA synthase activity; transferase activity;

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