

Recombinant Human HMGCL 293 Cell Lysate

Cat. No. HMGCL-5475HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase (HMGCL), nuclear gene encoding mitochondrial protein, transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name HMGCL 3-hydroxymethyl-3-methylglutaryl-CoA lyase [Homo sapiens]

Official Symbol HMGCL

Synonyms HMGCL; 3-hydroxymethyl-3-methylglutaryl-CoA lyase; 3 hydroxymethyl 3 methylglutaryl Coenzyme A lyase; hydroxymethylglutaryl-CoA lyase, mitochondrial; HL; hydroxymethylglutaricaciduria; HMG-CoA lyase; 3-hydroxy-3-methylglutaryl-CoA lyase; 3-hydroxy-3-methylglutarate-CoA lyase; 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase; mitochondrial 3-hydroxy-3-methylglutaryl-CoA lyase;

Gene ID 3155

mRNA Refseq NM_000191

Protein Refseq NP_000182

MIM 613898

UniProt ID P35914

Chromosome Location 1p36.1-p35

Pathway Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem; Fatty acid, triacylglycerol, and ketone body metabolism,

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organism-specific biosystem; Ketone body metabolism, organism-specific biosystem;
Leucine degradation, leucine =>acetoacetate + acetyl-CoA, organism-specific
biosystem; Leucine degradation, leucine =>

Function

carboxylic acid binding; fatty-acyl-CoA binding; hydroxymethylglutaryl-CoA lyase
activity; hydroxymethylglutaryl-CoA lyase activity; lyase activity; magnesium ion
binding; manganese ion binding; metal ion binding; protein homodimerization activity;

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