

Recombinant Human HLCS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HLCS-6636H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HLCS MS Standard C13 and N15-labeled recombinant protein (NP_000402) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes an enzyme that catalyzes the binding of biotin to carboxylases and histones. The protein plays an important role in gluconeogenesis, fatty acid synthesis and branched chain amino acid catabolism. Defects in this gene are the cause of holocarboxylase synthetase deficiency. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Molecular Mass	80.8 kDa
AA Sequence	MEDRLHMDNGLVPQKIVSVHLQDSTLKEVKDQVSNKQAQILEPKPEPSLEIKPEQDG MEHVGRDDPKALGEEPQRRGSASGSEPAGDSRGGGPVEHYHLHLSSCHECLE LENSTIESVKFASAENIPDLPYDYSSSLESVADETSPEREGRRVNLTKAPNILLVYG SDSQEALGRFHEVRSVLADCVDIDSYILYHLLDSALRDPWTDNCLLLVIATRESIPE DLYQKFMAYLSQGGKVLGLSSSFTFGGFQVTSKGALHKTQNLVFSKADQSEVKLS VLSSGCRYQEGPVRLSPGRLQGHLENEDKDRMIVHVPFGTRGGEAVLCQVHLELP PSSNIVQTPEDFNLLKSSNFRRYEVLRILTTLGLSCDMKQVPALTPLYLLSAAEEIRD PLMQWLKGKHDSEGEIKSGQLSLRFVSSYVSEVEITPSCIPVVTNMEAFSSEHFNLEI

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YRQNLQTKQLGKVILFAEVTPTTMRLLDGLMFQTPQEMGLIVIAARQTEGKGRGGNV
 WLSPVGCALSTLLISIPLRSQLGQRIPFVQHLMMSVAVVEAVRSIPEYQDINLRVKWPN
 DIYYSDLMKIGGVLVNSTLMGETFYILIGCGFNVNTSNPTICINDLITEYNKQHKAEKLP
 LRADYLIARVVTVLEKLIKEFQDKGPNSVLPYYRYWVHSGQQVHLGSAEGPKVSIV
 GLDDSGFLQVHQEGGEVTVHPDGNSFDMLRNLILPKRRTTRTRPLEQKLISEEDLAA
 NDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name HLCS holocarboxylase synthetase [Homo sapiens (human)]

Official Symbol HLCS

Synonyms HLCS; holocarboxylase synthetase (biotin-(propionyl-CoA-carboxylase (ATP-hydrolysing)) ligase); holocarboxylase synthetase (biotin (propionyl Coenzyme A carboxylase (ATP hydrolysing)) ligase), holocarboxylase synthetase (biotin [propionyl Coenzyme A carboxylase (ATP hydrolysing)] ligase); biotin--protein ligase; HCS; biotin apo-protein ligase; biotin--[acetyl-CoA-carboxylase] ligase; biotin--[methylcrotonoyl-CoA-carboxylase] ligase; biotin--[methylmalonyl-CoA-carboxytransferase] ligase; holocarboxylase synthetase (biotin-(propionyl-Coenzyme

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A-carboxylase (ATP-hydrolysing) ligase);

Gene ID 3141

mRNA Refseq NM_000411

Protein Refseq NP_000402

MIM 609018

UniProt ID P50747

SDS-PAGE



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