

Product datasheet for PH309197

HLCS (NM_000411) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HLCS MS Standard C13 and N15-labeled recombinant protein (NP_000402)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209197
Predicted MW:	80.8 kDa
Protein Sequence:	>RC209197 protein sequence Red=Cloning site Green=Tags(s)

MEDRLHMDNGLVPQKIVSVHLQDSTLKEVKDQVSNKQAQILEPKPEPSLEIKPEQDGMHVGRDDPKALG
EFPKQRRGSASGSEPAGDSDRGGGPVEHYHLHLSSCHECLELENSTIESVKFASAENIPDLPDYSSSLE
SVADETSPEREGRRVNLTKAPNILLVYVGSQSQAALGRFHEVRSVLADCVDDISYILYHLLSALRDPW
TDNCLLLVIATRESIPEDLYQKFAYLSQGGKVLGLSSSFTFGGFQVTSKGALHKTQNLVFSKADQSEV
KLSVLSSGCRYQEGPVRLSPGRLQGHLENEDKDRMIVHVPFGTRGGEAVLCQVHLELPPSSNIVQTPEDF
NLLKSSNFRRYEVLEILTTGLSCDMKQVPALTPLYLLSAAEEIRDPLMQWLKGHVDSEGEIKSGQLSL
RFVSSYVSEVEITPSCIPVVTNMEAFSSEHFNLEIYRQNLQTKQLGKVIILFAEVTPTMRLLDGLMFQTP
QEMGLIVIAARQTEGKGRGGNVWLSVPGCALSTLLISIPLSQLGQRIPFVQHLMSVAVVEAVRSIPEYQ
DINLRVKWPNDIYYSDLMKIGGVLVNSTLMGETFYILIGCGFNVTNSNPTICINDLITEYNKQHKAEKLP
LRADYL IARVVTVLEKLIKEFQDKGPNVSLPLYRYWVHSGQVHLGSAEGPKVSI VGLDDSGFLQVHQE
GGEVVTVHPDGN SFDMLRNLILPKRR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000402



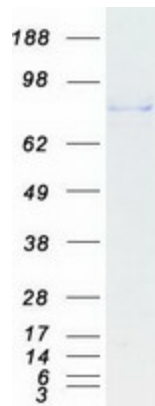
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RefSeq Size:	6019
RefSeq ORF:	2178
Synonyms:	HCS
Locus ID:	3141
UniProt ID:	P50747
Cytogenetics:	21q22.13

Summary: 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.[provided by RefSeq, Jun 2011]

Protein Pathways: Biotin metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified HLCS protein (Cat# [TP309197]). The protein was produced from HEK293T cells transfected with HLCS cDNA clone (Cat# [RC209197]) using MegaTran 2.0 (Cat# [TT210002]).