

Product datasheet for PH305004

CLPS (NM_001832) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CLPS MS Standard C13 and N15-labeled recombinant protein (NP_001823)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205004
Predicted MW:	12 kDa
Protein Sequence:	>RC205004 protein sequence Red=Cloning site Green=Tags(s) MEKILILLVALLSVAYAAPGPRGIIINLENGELCMNSAQCKSNCCQHSSALGLARCTSMASENSECSVKT LYGIYYKPCERGLTCEGDKTIVGSITNTNFGICH DAGRSKQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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_001823
RefSeq Size:	578
RefSeq ORF:	336
Locus ID:	1208
UniProt ID:	P04118
Cytogenetics:	6p21.31



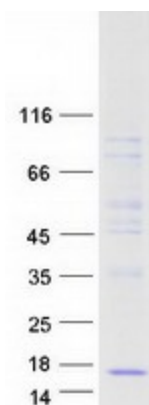
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Summary:

The protein encoded by this gene is a cofactor needed by pancreatic lipase for efficient dietary lipid hydrolysis. It binds to the C-terminal, non-catalytic domain of lipase, thereby stabilizing an active conformation and considerably increasing the overall hydrophobic binding site. The gene product allows lipase to anchor noncovalently to the surface of lipid micelles, counteracting the destabilizing influence of intestinal bile salts. This cofactor is only expressed in pancreatic acinar cells, suggesting regulation of expression by tissue-specific elements. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

Protein Families:

Secreted Protein, Transmembrane

Product images:

Coomassie blue staining of purified CLPS protein (Cat# [TP305004]). The protein was produced from HEK293T cells transfected with CLPS cDNA clone (Cat# [RC205004]) using MegaTran 2.0 (Cat# [TT210002]).