

Recombinant Human CLPS Protein, His tagged

Cat. No. CLPS-08H Lot. No. (See product label)

SPECIFICATION

Product Overview	Colipase (human, recombinant) protein consists of 105 amino acids, has a calculated molecular weight of 11.5 kDa, and a predicted N-terminus of Ala18 after signal peptide cleavage.
Species	Human
Source	Insect cells
ProteinLength	18-112 aa
Description	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.
Molecular Mass	11.5 kDa
Endotoxin	<1 EU/μg of the protein by the LAL
Purity	≥90% estimated by SDS-PAGE

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Stability	≥ 1 year
Storage	At -80 centigrade
Storage Buffer	Lyophilized from sterile PBS, pH 7.0, 500 mM sodium chloride, and 10% glycerol
Shipping	Dry ice in continental US; may vary elsewhere
Reference	1. Lowe, M.E. Structure and function of pancreatic lipase and colipase. Annu. Rev. Nutr. 17, 141-158 (1997). 2. Borgström, B., Wieloch, T., and Erlanson-Albertsson, C. Evidence for a pancreatic pro-colipase and its activation by trypsin. FEBS Lett. 108(2), 407-410 (1979). 3. van Tilbeurgh, H., Bezzine, S., Cambillau, C., et al. Colipase: Structure and interaction with pancreatic lipase. Biochim. Biophys. Acta 1441(2-3), 173-184 (1999).

GENE INFORMATION

Gene Name	CLPS colipase [Homo sapiens (human)]
Official Symbol	CLPS
Synonyms	CLPS; colipase; colipase; colipase, pancreatic; pancreatic colipase preproprotein
Gene ID	1208
mRNA Refseq	NM_001832
Protein Refseq	NP_001823
MIM	120105

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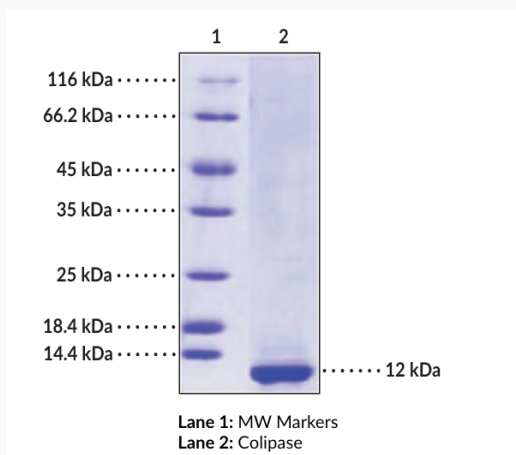
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UniProt ID

P04118

SDS-PAGE



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