

Recombinant Human CLPS, GST-tagged

Cat. No. CLPS-11344H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CLPS protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-112a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	CLPS colipase, pancreatic [Homo sapiens]
Official Symbol	CLPS
Synonyms	colipase, pancreatic; colipase; pancreatic colipase preproprotein; OTTHUMP00000016271
Gene ID	1208
mRNA Refseq	NM_001832
Protein Refseq	NP_001823
MIM	120105
UniProt ID	P04118
Chromosome Location	6pter-p21.1
Pathway	Digestion of dietary lipid, organism-specific biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem; Lipid digestion, mobilization, and transport, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Metabolism of steroid hormones and vitamins A and D, organism-specific biosystem
Function	enzyme activator activity