

Product datasheet for **AR51493PU-N**

Colipase (18-112, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Colipase (18-112, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSAPGPRGI IINLENGELC MNSAQCKSN CQHSSALGLA RCTSMASENS ECSVKTYGI YYKPCERGL TCEGDKTIVG SITNTNFGIC HDAGRSKQ
Tag:	His-tag
Predicted MW:	12.5 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 30% glycerol 1 mM DTT, 0.1M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human CLPS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001239526
Locus ID:	1208
UniProt ID:	A0A087WZW1
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: