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## Datasheet for ABIN7317222 **CLPS Protein (His tag)**



Overview

Quantity:	100 µg
Target:	CLPS
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CLPS protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human CLPS/Colipase Protein (His Tag)(Active)
Sequence:	Met 1-Gln 112
Characteristics:	A DNA sequence encoding the human CLPS (P04118) (Met 1-Gln 112) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per $\mu$ g as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized human CLPS-His at 10µ g/mL(100µL/well) can bind biotinylated human PNLIP-His.The EC50 of biotinylated human PNLIP-His is 0.57-1.33µg/mL.

Target Details

rargerb		
Target:	CLPS	
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Alternative Name:	
	CLPS/Colipase (CLPS Products)
Background:	Background: Colipase belongs to the colipase family. Structural studies of the complex and of
	colipase alone have revealed the functionality of its architecture. It is a small protein with five
	conserved disulphide bonds. Structural analogies have been recognised between a
	developmental protein, the pancreatic lipase C-terminal domain, the N-terminal domains of
	lipoxygenases and the C-terminal domain of alpha-toxin. Colipase can only be detected in
	pancreatic acinar cells, suggesting regulation of expression by tissue-specific elements.
	Colipase allows lipase to anchor noncovalently to the surface of lipid micelles, counteracting
	the destabilizing influence of intestinal bile salts. Without colipase the enzyme is washed off by
	bile salts, which have an inhibitory effect on the lipase. Colipase is a cofactor needed by
	pancreatic lipase for efficient dietary lipid hydrolysis. It binds to the C-terminal, non-catalytic
	domain of lipase, thereby stabilising as active conformation and considerably increasing the
	overall hydrophobic binding site.
	Synonym: CLPS
Molecular Weight:	11.5 kDa
JniProt:	P04118
Pathways:	Lipid Metabolism
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, 500 mM NaCl, pH 7.0, 10 % gly
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted

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