

## CLPS Protein, Human (sf9, His)

Cat. No.:	HY-P72933
Synonyms:	Colipase; CLPS
Species:	Human
Source:	Sf9 insect cells
Accession:	P04118 (A18-Q112)
Gene ID:	1208
Molecular Weight:	Approximately 12 kDa

### PROPERTIES

AA Sequence	<p>A P G P R G I I I N      L E N G E L C M N S      A Q C K S N C C Q H      S S A L G L A R C T</p> <p>S M A S E N S E C S      V K T L Y G I Y Y K      C P C E R G L T C E      G D K T I V G S I T</p> <p>N T N F G I C H D A      G R S K Q</p>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 637 mM NaCl, 2.7 mM KCl, 10 mM Na <sub>2</sub> HPO <sub>4</sub> , 1.8 mM KH <sub>2</sub> PO <sub>4</sub> , 10% Glycerol, pH 7.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	<p>Colipase (CLPS) is a vital cofactor for pancreatic lipase, facilitating its anchoring to the lipid-water interface. This interaction is crucial for the enzyme's stability and effectiveness in lipid digestion. In the absence of colipase, pancreatic lipase is prone to being washed away by bile salts, which exert an inhibitory effect on the lipase. Colipase's role in enhancing lipase activity underscores its significance in efficient lipid hydrolysis within the digestive system. Furthermore, the biological activity of enterostatin as a satiety signal suggests a potential role for colipase in the regulation of appetite and food intake, further highlighting its multifaceted functions in digestive processes and metabolic regulation (</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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