

## CLPS Protein, Human (sf9, His)

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

### PROPERTIES

<b>AA Sequence</b>	<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>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, 500 mM NaCl, pH 7.0, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
<b>Endotoxin Level</b>	<1 EU/ $\mu$ g, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<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>
-------------------	--

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA