

---

## Product Data Sheet

---

Product Name: CLPS Human  
 Cat. No.: GP23179  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Colipase Pancreatic; Pancreatic Colipase Preproprotein; Colipase; CLPS.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSAPGPRGI IINLENGELC MNSAQCKSNCCQHSSALGLA RCTSMASENS ECSVKTYGI YYKPCERGL TCEGDKTIVG SITNTNFGIC HDAGRSKQ.		
Formulation	The CLPS solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 30% glycerol, 1mM DTT and 0.1M NaCl.		

### Introduction

Colipase (CLPS) is a protein co-enzyme essential for optimal enzyme activity of pancreatic lipase. CLPS is secreted by the pancreas as an inactive form, procolipase, which is then activated in the intestinal lumen by trypsin. CLPS prevents the inhibitory effect of bile salts on the lipase-catalyzed intraduodenal hydrolysis of dietary long-chain triglycerides. CLPS allows lipase to anchor noncovalently to the surface of lipid micelles, counteracting the destabilizing influence of intestinal bile salts. CLPS binds to the C-terminal, non-catalytic domain of lipase, thus stabilizing an active conformation and significantly increasing the whole hydrophobic binding site.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CLPS Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 118 amino acids (18-112) and having a molecular mass of 12.5 kDa. CLPS is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

---

## Product Data Sheet

---

chromatographic techniques.

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

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**