9051 Mira Mesa Blvd, #910094
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CLPS Human

Colipase Pancreatic Human Recombinant
RCP0463

Product Overview

Name	CLPS Human
Description	
Colipase Pancreatic Human Recombinant	
Accession (Primary)	P04118
Synonyms	
Colipase Pancreatic, Pancreatic Colipase Preproprotein, Colipase, CLPS.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The CLPS solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 30% glycerol, 1mM DTT and 0.1M NaCl.	
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.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS APGPRGI IINLENGELC MNSAQCKSNC CQHSSALGLA RCTSMASENS ECSVKTLYGI YYKCPCERGL TCEGDKTIVG SITNTNFGIC HDAGRSKQ.	
Precautions	

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CLPS Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P04118)