

32-3552: CLPS Recombinant Protein

Alternative Name : Colipase Pancreatic, Pancreatic Colipase Preproprotein, Colipase, CLPS.

Description

Source : Escherichia Coli. 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 chromatographic techniques. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The CLPS solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 30% glycerol, 1mM DTT and 0.1M NaCl.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSSLVPRGSH MGSAPGPRGI IINLENGELC MNSAQCKSN CQHSSALGLA RCTSMASENS ECSVKTYGI YYKPCERGL TCEGDKTIVG SITNTNFGIC HDAGRSKQ.