

Native Porcine Colipase

Cat. No. NATE-0144

Lot. No. (See product label)

Introduction

Description

Colipase is a protein co-enzyme required for optimal enzyme activity of pancreatic lipase. It is secreted by the pancreas in an inactive form, procolipase, which is activated in the intestinal lumen by trypsin. Its function is to prevent the inhibitory effect of bile salts on the lipase-catalyzed intraduodenal hydrolysis of dietary long-chain triglycerides. In humans, the colipase protein is encoded by the CLPS gene.

Applications

Pancreatic colipase is a required co-factor for pancreatic lipase, being necessary for its activity during hydrolysis of dietary triglycerides in the presence of bile salts

Synonyms

CLPS; colipase; pancreatic colipase

Product Information

Species

Porcine

Source

Porcine pancreas

Appearance

Colourless liquid

Form

Liquid

Activity

10 KU-20 KU/mL

Concentration

0.15-0.52 mg/mL

Contaminants

Glucose Oxidase < 0.002 U/mg liquid

Pathway

Digestion of dietary lipid, organism-specific biosystem; Fat digestion and absorption, organism-specific biosystem; Lipid digestion, mobilization, and transport, organism-specific biosystem

Function

enzyme activator activity

Unit Definition

One unit of activity is defined as the amount of enzyme that will catalyze the release of 1.0 micromole of fatty acid from tributyrin per minute at 20°C under the standard assay method conditions.