

Recombinant human pancreatic lipase Reference Standard

Cat. No. PNLIP-13H Lot. No. (See product label)

SPECIFICATION

Product Overview

Each sample is in lyophilised form and equivalent to about 1 mL of a solution of purified recombinant pancreatic lipase from v79-rHPL cell line. The preparation has been stabilised by incorporation in a matrix consisting of Tris 20 mmol, pH=7.6 and BSA 40 g/l. No contamination, as assessed by measurement of their catalytic activity, has been detected for the following enzymes: ALP, ALT, α -Amylase, AST, esterase, GGT, and LDH. The material is kept under dry nitrogen in neutral clear glass ampoules, sealed by fusion. The residual water mass fraction of the sample had a mean value of 0.114%. It is not recommended that a portion of the lyophilised material contained in an ampoule be used.

Species Human

Description

This gene is a member of the lipase gene family. It encodes a carboxyl esterase that hydrolyzes insoluble, emulsified triglycerides, and is essential for the efficient digestion of dietary fats. This gene is expressed specifically in the pancreas.

Usage

To make it ready for use, the material has to be reconstituted according to the procedure described in section 12 of the certification report. The intended use of the material is: a) to ensure the transferability of results obtained with procedures having the same analytical specificity; b) to assign values to secondary materials and c) to calibrate the colorimetric routine procedure, described in the report. The commutability of the material with routine in vitro diagnostic devices has not been assessed. If the material is used for the calibration of in vitro diagnostic devices the commutability has to be assessed by the user.

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Quality Control Test	Titrimetric standardized operating procedure at 37 °C (details specified in the report).
Notes	The recombinant enzyme material was prepared from V79-rHPL cell line. V79 (Chinese Hamster Fibroblasts) have been stably transfected with human pancreatic lipase cDNA under the control of CMV promoter. However, the product must be handed as any material of human origin. It is intended for in vitro analysis only and usual laboratory safety precautions apply.
Storage	Upon arrival at the laboratory the material shall be stored at -20 °C. However, the European Commission cannot be held responsible for changes that happen during storage of the material at the customer's premises, especially of opened samples.
Concentration	Human Pancreatic Lipase: 17.4 ukat/L

GENE INFORMATION

Gene Name	PNLIP pancreatic lipase [Homo sapiens]
Official Symbol	PNLIP
Synonyms	PNLIP; pancreatic lipase; pancreatic triacylglycerol lipase; triacylglycerol acylhydrolase; PL; PTL; PNLIPD;
Gene ID	5406
mRNA Refseq	NM_000936
Protein Refseq	NP_000927
MIM	246600

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UniProt ID	P16233
Chromosome Location	10q25.3
Pathway	Acylglycerol degradation, organism-specific biosystem; Acylglycerol degradation, conserved biosystem; Digestion of dietary lipid, organism-specific biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem; Glycerolipid metabolism, organism-specific biosystem; Glycerolipid metabolism, conserved biosystem;
Function	hydrolase activity; retinyl-palmitate esterase activity; triglyceride lipase activity;

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