

Recombinant Human PNLIPRP2, His-tagged

Cat. No. PNLIPRP2-8605H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the human PNLIPRP2 (P54317)(Met 1- Cys469) was expressed, with a C-terminal polyhistidine tag.
Species	Human
Source	Insect Cells
ProteinLength	1-469 a.a.
Description	Galactolipase, also known as PNLIPRP2, is a lipase with broad substrate specificity. Galactolipase contributes to milk fat hydrolysis. It hydrolyses milk fat with a lower catalytic efficiency. The expressed galactolipase shows a lipolytic activity that is, however, only marginally dependent on the presence of colipase. The lipolytic activity of pancreatic extracts and human pancreatic juice on Labrasol is mainly due to the combined action of carboxyl ester hydrolase and galactolipase. Galactolipase also hydrolyzes both phospholipids and galactolipids. It acts preferentially on monoglycerides, phospholipids and galactolipids.
Predicted N Terminal	Lys 18
Form	Lyophilized from sterile 20mM Tris,500mM NaCl, pH 7.4, 10% gly. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
Molecular Mass	The secreted recombinant human PNLIPRP2 consists of 462 amino acids and predicts a molecular mass of 51.5 KDa. The apparent molecular mass of the protein

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is approximately 57 Kda in SDS-PAGE under reducing conditions due to glycosylation.

Endotoxin 1.0 eu/μg of the protein as determined by the lal

Purity >95 % as determined by SDS-PAGE

Stability Samples are stable for up to twelve months from date of receipt at -70°C

Storage Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name [PNLIPRP2 pancreatic lipase-related protein 2 \[Homo sapiens \]](#)

Official Symbol PNLIPRP2

Synonyms PNLIPRP2; pancreatic lipase-related protein 2; PLRP2; PL-RP2; galactolipase;

Gene ID [5408](#)

mRNA Refseq [NM_005396](#)

Protein Refseq [NP_005387](#)

MIM [604423](#)

UniProt ID [P54317](#)

Chromosome 10q26.12

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Location**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

acylglycerol lipase activity; calcium ion binding; galactolipase activity; hydrolase activity; phospholipase activity; retinyl-palmitate esterase activity; triglyceride lipase activity;

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