

Human Galactolipase / PNLIPRP2 Protein (His Tag)

Catalog Number: 13687-H08B



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

PLRP2; PLRP2

Protein Construction:

A DNA sequence encoding the human PNLIPRP2 (P54317) (Met 1-Cys469) was expressed, with a C-terminal polyhistidine tag.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

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

Predicted N terminal: Lys 18

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

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

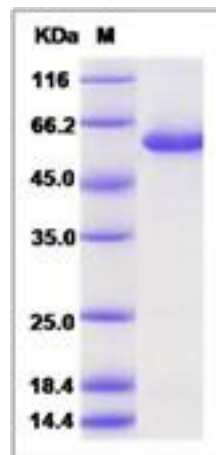
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Galactolipase, also known as PNLIPRP2, is a lipase with broad substrate specificity. It can hydrolyze both phospholipids and galactolipids. Galactolipase acts preferentially on monoglycerides, phospholipids and galactolipids. It also 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.

References

- 1.Andersson EL, *et al.* (2011) BSSL and PLRP2: key enzymes for lipid digestion in the newborn examined using the Caco-2 cell line. *J Lipid Res.* 52(11):1949-56.
- 2.Xiao X, *et al.* (2011) Pancreatic lipase-related protein-2 (PLRP2) can contribute to dietary fat digestion in human newborns. *J Biol Chem.* 286(30):26353-63.
- 3.Alves BN, *et al.* (2009) Lipid-dependent cytotoxicity by the lipase PLRP2 and by PLRP2-positive cytotoxic T lymphocytes (CTLs). *Cell Biochem Funct.* 27(5):296-308.

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