# Rat PNLIPRP1 / PLRP1 Protein (His Tag)

**Catalog Number:** **80624-R08H**

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Biological Solution Specialist

## General Information

**Gene Name Synonym:**

PLRP1; Plrp1

**Protein Construction:**

A DNA sequence encoding the rat Pnliprp1 (NP_114470.1) (Met1-Val473) was expressed with a polyhistidine tag at the C-terminus.

**Source:** Rat

**Expression Host:** Human Cells

## QC Testing

**Purity:** > 90 % as determined by SDS-PAGE.

**Endotoxin:**

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

**Stability:**

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

**Predicted N terminal:** Lys 18

**Molecular Mass:**

The recombinant rat Pnliprp1 consists 467 amino acids and predicts a molecular mass of 52 kDa.

**Formulation:**

Lyophilized from sterile PBS, pH 7.4.

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:**

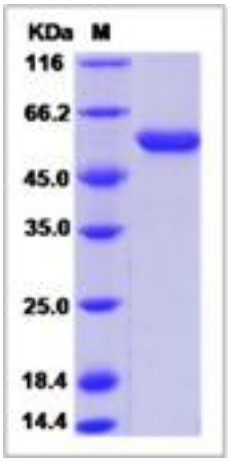
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

**Reconstitution:**

Detailed reconstitution instructions are sent along with the products.

**SDS-PAGE:**




## Protein Description

PNLIPRP1, also known as PLRP1, belongs to the AB hydrolase superfamily, Lipase family. PNLIPRP1 is structurally similar to PLRP2. However, these two proteins display different functional properties. PNLIPRP1 may function as inhibitor of dietary triglyceride digestion. It lacks detectable lipase activity towards triglycerides, diglycerides, phosphatidylcholine, galactolipids or cholesterol esters. PLRP2 hydrolyses milk fat with a lower catalytic efficiency than that of PL. PLRP2 activity, higher on homogenized than on native milk fat, is differently influenced by fatty acids and colipase depending on a proteolytic cleavage in the lid domain.

**References**

1.Grupe A. et al., 2006, Am J Hum Genet. 78 (1): 78-88.
2.Strausberg RL. et al., 2002, Proc Natl Acad Sci. 99 (26): 16899-903.
3.Giller T. et al., 1992, J Biol Chem. 267 (23): 16509-16.