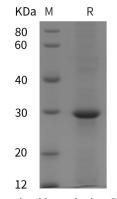
## Recombinant Human Pancreatic lipase/PL protein (His Tag)

## Catalog Number: PDEH100821

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

Human
E.coli-derived Human Pancreatic lipase protein Pro245-Cys465, with an N-terminal His
24.2 kDa
30 kDa
216233
Not validated for activity
> 95% as determined by reducing SDS-PAGE.
< 10 EU/mg of the protein as determined by the LAL method
Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80
C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of
econstituted samples are stable at $< -20^{\circ}$ C for 3 months.
This product is provided as lyophilized powder which is shipped with ice packs.
Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with 5% Trehalose and 5%
Mannitol.
t is recommended that sterile water be added to the vial to prepare a stock solution of
0.5 mg/mL. Concentration is measured by UV-Vis.





> 95 % as determined by reducing SDS-PAGE.

## Background

PNLIP is an enzyme which belongs to the lipase family. Secreted from the pancreas, PNLIP is the primary lipase that hydrolyzes dietary fat molecules in the human digestive system, converting triglyceride substrates found in ingested oils to monoglycerides and free fatty acids. Bile salts secreted from the liver and stored in gallbladder are released into the duodenum where they coat and emulsify large fat droplets into smaller droplets, thus increasing the overall surface area of the fat, which allows the lipase to break apart the fat more effectively. The resulting monomers (2 free fatty acids and one 2-monoacylglycerol) are then moved by way of peristals along the small intestine to be absorbed into the lymphatic system by a specialized vessel called a lacteal.

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