

PNLIP recombinant protein

PNLIP Protein, Human, Recombinant (His Tag)

CATALOG #
AAA258023

HOST
HEK293 Cells

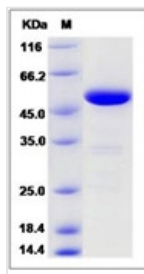
PRODUCT SYNONYMS

PNLIP; PNLIP Protein; Human; Recombinant (His Tag); Human PNLIP Protein (His Tag); PL Protein; PNLIPD Protein; PTL Protein; pancreatic lipase; PNLIP recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Cys46 5
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Lys 17
Tag	C-His
Protein Construction	A DNA sequence encoding the human PNLIP (P16233)(Met1-Cys465) was expressed with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PNLIP recombinant protein	Background: PNLIP is an enzyme that 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 peristalsis along the small intestine to be absorbed into the lymphatic system by a specialized vessel called a lacteal.
References	Hegele RA, et al. (2001) Polymorphisms in PNLIP, encoding pancreatic lipase, and associations with metabolic traits. J Hum Genet. 46(6):320-4. Thomas A, et al. (2005) Role of the lid hydrophobicity pattern in pancreatic lipase activity. J Biol Chem. 280(48):40074-83. Colin DY, et al. (2008) Exploring the active site cavity of human pancreatic lipase. Biochem Biophys Res Commun. 370(3):394-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1304379
NCBI GeneID	5406
UniProt Accession #	P16233; Q5VSQ2
Molecular Weight	The recombinant human PNLIP consists of 460 amino acids and predicts a molecular mass of 51 kDa. It migrates as an approximately 51 kDa band in SDS-PAGE under reducing conditions
NCBI Official Full Name	pancreatic lipase
NCBI Official Synonym Full Names	pancreatic lipase
NCBI Official Symbol	PNLIP
NCBI Official Synonym Symbols	PL; PTL; PNLIPD
NCBI Protein Information	pancreatic triacylglycerol lipase; triacylglycerol acylhydrolase
UniProt Protein Name	Pancreatic triacylglycerol lipase
UniProt Gene Name	PNLIP
UniProt Synonym Gene Names	PL; PTL
UniProt Entry Name	LIPP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/pnlip-recombinant-protein-hek293/258023>