PNLIP/Pancreatic lipase Protein, Human (HEK293, His)

Cat. No.:	HY-P75978
Synonyms:	PnlipPancreatic triacylglycerol lipase; PL; PTL; Pancreatic lipase
Species:	Human
Source:	HEK293
Accession:	P16233 (K17-C465)
Gene ID:	5406
Molecular Weight:	Approximately 51 kDa

PROPERTIES

AA Sequence	K E V C Y E R L G C F S D D S P W S G I T E R P L H I L P W S P K D V N T R F L L Y T N E N P N N F Q E V A A D S S S I S G S N F K T N R K T R F I I H G F I D K G E E N W L A N V C K N L F K V E S V N C I C V D W K G G S R T G Y T Q A S Q N I R I V G A E V A Y F V E F L Q S A F G Y S P S N V H V I G H S L G A H A A G E A G R R T N G T I G R I T G L D P A E P C F Q G T P E L V R L D P S D A K F V D V I H T D G A P I V P N L G F G M S Q V V G H L D F F P N G G V E M P G C K K N I L S Q I V D I D G I W E G T R D F A A C N H L R S Y K Y Y T D S I V N P D G F A G F P C A S Y N V F T A N K C F P C P S G G C P Q M G H Y A D R Y P G K T N D V G Q K F Y L D T G D A S N F A R W R Y K V S V T L S G K K V T G H I L V S L F G N K G N S K Q Y E I F K G T L K P D S T H S N E F D S D V D V G D L Q M V K F I W Y N N V I N P T L P R V G A S K I I V E T N V G K Q F N F C S P E T V R E E V L L T L T P C
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The PNLIP/Pancreatic lipase protein plays a vital role in fat metabolism. It exhibits a preference for cleaving the esters of long-chain fatty acids at positions 1 and 3, resulting in the production of 2-monoacylglycerol and free fatty acids. Additionally, it demonstrates significantly higher activity against insoluble emulsified substrates compared to soluble ones.

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