

## PNLIP/Pancreatic lipase Protein, Mouse (His-SUMO)

<b>Cat. No.:</b>	HY-P71582
<b>Synonyms:</b>	PnlipPancreatic triacylglycerol lipase; PL; PTL; Pancreatic lipase; EC 3.1.1.3
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli
<b>Accession:</b>	Q6P8U6 (17R-465C)
<b>Gene ID:</b>	69060
<b>Molecular Weight:</b>	Approximately 65.8 kDa

### PROPERTIES

#### AA Sequence

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R E V C F D K L G C   F S D D A P W S G T   L D R P L K A L P W   S P A Q I N T R F L
L Y T N E N P D N Y   Q L I T S D A S N I   R N S N F R T N R K   T R I I I H G F I D
K G E E N W L S D M   C K N M F R V E S V   N C I C V D W K G G   S R T T Y T Q A T Q
N V R V V G A E V A   L L V N V L Q S D L   G Y S L N N V H L I   G H S L G S H I A G
E A G K R T F G A I   G R I T G L D P A E   P Y F Q G T P E E V   R L D P T D A Q F V
D A I H T D A G P I   I P N L G F G M S Q   T V G H L D F F P N   G G I E M P G C Q K
N I L S Q I V D I D   G I W E G T R N F A   A C N H L R S Y K F   Y T D S I V N P T G
F A G F S C S S Y S   L F T A N K C F P C   G S G G C P Q M G H   Y A D R Y P G K T S
R L Y Q T F Y L N T   G D K S N F A R W R   Y Q V T V T L S G Q   K V T G H I L V S L
F G N G G N S K Q Y   E V F K G S L Q P G   T S H V N E F D S D   V D V G D L Q K V K
F I W Y N N V I N P   T L P K V G A S R I   T V E R N D G R V F   N F C S Q E T V R E
D V L L T L S P C
  
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<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

The Pancreatic lipase (PNLIP) protein is integral to fat metabolism, exhibiting a vital role in the enzymatic breakdown of dietary lipids. PNLIP displays a preference for splitting esters of long-chain fatty acids at positions 1 and 3, resulting in the predominant production of 2-monoacylglycerol and free fatty acids. Notably, its enzymatic activity is significantly higher against insoluble emulsified substrates compared to soluble ones. This substrate specificity underscores the protein's efficiency in processing dietary fats and contributing to the digestion and absorption of lipids in the digestive system. PNLIP's functional characteristics highlight its crucial involvement in lipid metabolism, playing a key role in the intricate processes that facilitate the utilization of dietary fats for energy and nutrient absorption.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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