

## PNLIPRP1 Protein, Dog (P.pastoris, His)

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|--------------------------|---|
| <b>Cat. No.:</b>         | HY-P71770   |
| <b>Synonyms:</b>         | PNLIPRP1; PLRP1; Inactive pancreatic lipase-related protein 1; PL-RP1 |
| <b>Species:</b>          | Dog   |
| <b>Source:</b>           | P. pastoris   |
| <b>Accession:</b>        | P06857 (18K-467C)   |
| <b>Gene ID:</b>          | 404010  |
| <b>Molecular Weight:</b> | Approximately 51.7 kDa  |

### PROPERTIES

#### AA Sequence

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KEVCYEQIGC   FSDAEPWAGT   AIRPLKVL PW   SPERIGTRFL
LYTNKNPNNF   QTL LPSDPST   IEASNFQTDK   KTRFIIHGFI
DKGEENWL LD   MCKNMFKVEE   VNCICVDWKK   GSQTSYTQAA
NNVRVVGAQV   AQMLSMLSAN   YSYSPSQVQL   IGHS LGAHVA
GEAGSRTPGL   GRITGLDPVE   ASFQGTPEEV   RLDPTDADFV
DVIHTDAAPL   IPFLGFGTSQ   QMGHLDFFPN   GGEEMP GCKK
NALSQIVDLD   GIWEGTRDFV   ACNHLRSYKY   YSE SILNPDG
FASYPCASYR   AFESNKCFPC   PDQGCPQMGH   YADKFAVKTS
DETQKYFLNT   GDSSNFARWR   YGVSITLSGK   RATGQAKVAL
FGSKGNTHQF   NIFKGI LKPG   STHSNEFDAK   LDVGTIEKVK
FLWNNNVVNP   TFPKVGAAKI   TVQKGEEKTV   HSFCSESTVR
EDVLLTLTPC
  
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#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.

#### Endotoxin Level

<1 EU/μg, determined by LAL method.

#### Reconstitution

It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH<sub>2</sub>O.

#### 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 PNLIPRP1 protein appears to function as an inhibitor of dietary triglyceride digestion, as it lacks detectable lipase

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activity towards various substrates including triglycerides, diglycerides, phosphatidylcholine, galactolipids, or cholesterol esters in vitro. This suggests that PNLIPRP1 may play a regulatory role in the digestive process, potentially influencing the breakdown of dietary triglycerides. The absence of detectable lipase activity toward a range of substrates underscores its specificity as an inhibitor and hints at its involvement in the fine-tuning of lipid metabolism. A deeper investigation into the molecular mechanisms underlying PNLIPRP1's inhibitory function on dietary triglyceride digestion could provide valuable insights into its role in lipid metabolism regulation and its potential impact on overall digestive processes.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA