

PLRP1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70991
Synonyms:	Pancreatic Lipase-Related Protein 1; PL-RP1; PNLIPRP1; PLRP1
Species:	Human
Source:	HEK293
Accession:	AAH25784.1 (K18-C467)
Gene ID:	5407
Molecular Weight:	44-50 kDa

PROPERTIES

AA Sequence	<pre> KEVCYEDLGC FSDTEPWGGT AIRPLKILPW SPEKIGTRFL LYTNENPNNF QILLLSDPST IEASNFQMDR KTRFIIHGFI DKGDESWVTD MCKKLFEEVEE VNCICVDWKK GSQATYTQAA NNVRVVGAVQV AQMLDILLTE YSYPPSKVHL IGHSLGAHVA GEAGSKTPGL SRITGLDPVE ASFESTPEEV RLDPSDADFV DVIHTDAAPL IPFLGFGTNQ QMGHLDFFPN GGESMPGCKK NALSQIVDLLD GIWAGTRDFV ACNHLRSYKY YLESILNPDG FAAYPCTSYK SFESDKCFPC PDQGCPQMGH YADKFAGRTS EEQQKFLLNT GEASNFAWRW YGVSITLSGR TATGQIKVAL FGNKGNTHQY SIFRGI LKPG STHSYEFDAK LDVGTIDKVK FLWNNNVINP TLPKVGATKI TVQKGE EKT V YNFCSEDTV R EDTL L L L T P C </pre>
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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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

Pancreatic lipase-related protein 1 (PLRP1) is a protein that encoded by PNLIPRP1 gene. PLRP1 is produced by pancreatic acinar cells and expressed in the pancreas. PLRP1 is involved in lipid catabolic process, acting as a negative regulator of pancreatic lipase activity by competing with pancreatic lipase for colipase occupancy. PLRP1 may function as inhibitor of dietary triglyceride digestion, but it lacks detectable lipase activity towards triglycerides, diglycerides, phosphatidylcholine, galactolipids or cholesterol esters. PLRP1 can bind to colipase and inhibits PTL activity in the presence of colipase. In addition, lack of PLRP1 may develop obesity and the symptom of glucose intolerance and insulin resistance^{[1][2][3]}.

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

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