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**Product Data Sheet**


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Product Name: PNPT1 Human

Cat. No.: GP22124

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	<p>Polyribonucleotide Nucleotidyltransferase 1; PolynucleotidePhosphorylase-Like Protein; Polynucleotide Phosphorylase 1; 3-5 RNA ExonucleaseOLD35; PNPase Old-35; EC 2.7.7.8; PNPase 1; COXPD13; DFNB70; PNPASE; OLD35; PolyribonucleotideNucleotidyltransferase 1; Mitochondrial; Deafness; Autosomal Recessive 70; PolynucleotidePhosphorylase; 3-5 RNA Exonuclease; EC 2.7.7; Old-35; Polyribonucleotidenucleotidyltransferase 1; mitochondrial; 3'-5' RNA exonuclease OLD35; PNPaseold-35.</p>		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSAAVAVDLG NRKLEISSGK LARFADGSAV  VQSGDTAVMV TAVSKTKPSQFMPLVVDY RQKAAAAGRI PTNYLRREIG  TSDKEILTSR IIDRSIRPLF PAGYFYDTQV LCNLLAVDGVNEPDVLAING  ASVALSLSDI PWNGPVGAVR IGIIDGEYVV NPTRKEMSSS TLNLVVAGAP  KSQIVMLEASAENILQQDFC HAIKVGKTYT QQIIQGIQQL VKETGVTKRT  PQKLFTPSPE IVKYTHKLM ERLYAVFTDYEHDKVSRDEA VNKIRLDTEE  QLKEKFPEAD PYEIIESFNV VAKEVFRSIV LNEYKRCDDR  DLTSLRNVSCEVDMFKTLHG SALFQRGQTQ VLCTVTFDSL ESGIKSDQVI  TAINGIKDKN FMLHYEFPY ATNEIGKVTGLNRRELGHGA LAEKALYPVI  PRDFPFTIRV TSEVLESNGS SSMASACGGS LALMDSGVPI  SSAVAGVAIGLVTKTDPEKG EIEDYRLLTD ILGIEDYNGD MDFKIAGTNK  GITALQADIK LPGIPIKIVM EAIQQASVAKKEILQIMNKT ISKPRASRKE  NGPVVETVQV PLSKRAKFGV PGGYNLKKLQ AETGVVISQV  DEETFSVFAPTPSAMHEARD FITEICKDDQ EQQLEFGAVY TATITEIRDT  GVMVKLYPNM TAVLLHNTQL DQRKIKHPTALGLEVGQEIQ VKYFGRDPAD  GRMRLSRKVL QSPATTVVRT LNDRSSIVMG EPISQSSSNS Q.</p>		

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Formulation PNPT1 protein solution (0.25mg/ml) containing Phosphatebuffered saline (pH7.4), 10% glycerol and 1mM DTT.

### Introduction

Polyribonucleotide nucleotidyltransferase 1, also known as PNPT1 is predominantly localized in the mitochondrial intermembrane space and is implicated in the import of RNA to mitochondria. Mutations in PNPT1 have been connected with combined oxidative phosphorylation deficiency-13 as well as autosomal recessive nonsyndromic deafness-70. Related pseudogenes have been found on chromosomes 3 & 7.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PNPT1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 761 amino acids (46-783 a.a) and having a molecular mass of 83.3kDa. PNPT1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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