

Recombinant human PNPT1 protein

Catalog Number: ATGP3024

PRODUCT INFORMATION

Expression system

E.coli

Domain

46-783aa

UniProt No.

Q8TCS8

NCBI Accession No.

NP_149100.2

Alternative Names

Polyribonucleotide nucleotidyltransferase 1, Polyribonucleotide nucleotidyltransferase 1, COXPD13, DFNB70, old-35, OLD35, PNPASE

PRODUCT SPECIFICATION

Molecular Weight

83.3 kDa (761aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PNPT1 also known as polyribonucleotide nucleotidyltransferase 1. This enzyme is predominantly localized in the mitochondrial intermembrane space and is involved in import of RNA to mitochondria. Mutations in this gene have been associated with combined oxidative phosphorylation deficiency-13 and autosomal recessive nonsyndromic deafness-70. Related pseudogenes are found on chromosomes 3 and 7. Recombinant human PNPT1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>AVAVDLG NRKLEISSGK LARFADGSAV VQSGDTAVMV TAVSKTKPSP SQFMPLVVDY RQKAAAAGRI PTNYLRREIG TSDKEILTSR IIDRSIRPLF PAGYFYDTQV LCNLLAVDGV NEPDVLAING ASVALSLSDI PWNGPVGAVR IGIIDGEYVV NPTRKEMSSS TLNLVAGAP KSQIVMLEAS AENILQQDFC HAIKVGVKYT QQIIQGIQQL VKETGVTKRT PQLFTPSPE IVKYTHKLAM ERLYAVFTDY EHDKVSDEA VNKIRLDTEE QLKEKFPEAD PYEIIESFNV VAKEVFRSIV LNEYKRCDDR DLTSLRNVSC EVD MFKTLHG SALFQRGQTQ VLCTVTFDSL ESGIKSDQVI TAINGIKDKN FMLHYEFPPY ATNEIGKVTG LNRRELGHGA LAEKALYPVI PRDFPFTIRV TSEVLESNGS SSMASACGGS LALMDSGVPI SSVAVAGVAIG LVTKTDPKKG EIEDYRLLTD ILGIEDYNGD MDFKIAGTNK GITALQADIK LPGIPIKIVM EAIQQASVAK KEILQIMNKT ISKPRASRKE NGPVVETVQV PLSKRAKFBG PGGYNLKKLQ AETGVTISQV DEETFSVFAP TPSAMHEARD FITEICKDDQ EQQLEFGAVY TATITEIRD T GVMVKLYPNM TAVLLHNTQL DQRKIKHPTA LGLEVGQEIQ VKYFGRDPAD GRMRLSRKVL QSPATTVVRT LNDRSSIVMG EPISQSSNS Q

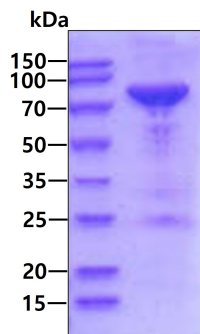
General References

Leszczyniecka M., et al. (2002) Proc. Natl. Acad. Sci. u.S.A. 99:16636-16641

Sarkar D., et al. (2003) J. Biol. Chem. 278:24542-24551

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.