

## AR09725PU-L

## Human NP (1-289, His-tag) - Purified

### Alternate names:

Inosine Phosphorylase, PNP, PNP1, Purine Nucleoside Phosphorylase

### Quantity:

0.5 mg

### Concentration:

1.0 mg/ml (determined by Bradford assay)

### Background:

PNP belongs to the PNP/MTAP phosphorylase family of proteins. This protein catalyzes the reversible phosphorolysis of ribonucleosides and 2'-deoxyribonucleosides with specificity for guanine, hypoxanthine and their analogs. PNP deficiency is a rare autosomal recessive genetic disease associated with a severe defect in T-lymphocyte function and neurologic disorder in children, comprising four percent of combined immunodeficiency cases.

### Uniprot ID:

[P00491](#)

### NCBI:

[NP\\_000261](#)

### GeneID:

[4860](#)

### Species:

Human

### Source:

E. coli

### Format:

**State:** Liquid purified protein

**Purity:** >90%

**Buffer System:** 20 mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 2mM DTT, 10% glycerol

### Description:

Recombinant human PNP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

#### AA Sequence:

MGSSHHHHHH SSGLVPRGSH MENGYTYEDY KNTAEWLLSH TKHRPQVAII CGSGLGGLTD  
KLTQAQIFDY GEIPNFPRST VPGHAGRLVF GFLNGRACVM MQGRFHYEG YPLWKVTFPV  
RVFHLLGVDV LVTNAAGGL NPKFEVGDIM LIRDHINLPG FSGQNPLRGP NDERFGDRFP  
AMSDAYDRTM RQRALSTWKQ MGEQRELQEG TYVMVAGPSF ETVAECRVLQ KLGADAVGMS  
TVPEVIVARH CGLRVFGFSL ITNKVIMDYE SLEKANHEEV LAAGQAAQK LEQFVSILMA  
SIPLPKAS

**Molecular weight:** 43.2 kDa (309aa) confirmed by MALDI-TOF

### Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

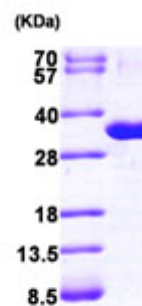
Shelf life: one year from despatch.

### General Readings:

Dautant A., et al. (2010) J Biol Chem. 285(38):29502-10.

Balakrishnan K., et al. (2010) Blood. 116(6):886-92.

**Pictures:**



15% SDS-PAGE (3ug)

Recombinant human PNP, 1-289 aa, His-tagged



15% SDS-PAGE (3ug)