

AR09725PU-N

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

Alternate names:

Inosine Phosphorylase, PNP, PNP1, Purine Nucleoside Phosphorylase

Quantity:

0.1 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:

MGSSHHHHH SSGLVPRGSH MENGYTYEDY KNTAEWLLSH TKHRPQVAII CGSGLGGLTD
KLTQAQIFDY GEIPNFRST 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.

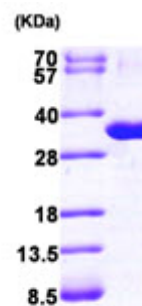
Shelf life: one year from despatch.

General Readings:

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

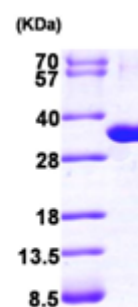
Balakrishnan K., et al. (2010) Blood. 116(6):886-92.

Pictures:



15% SDS-PAGE (3ug)

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



15% SDS-PAGE (3ug)