

PNP, human recombinant protein**Purine nucleoside phosphorylase, NP, Inosine phosphorylase, PRO1837, PUNP****Catalog # PBV11390r****Specification****PNP, human recombinant protein - Product info**

Primary Accession	P00491
Concentration	1
Calculated MW	34.2 kDa (309 aa, 1-289 aa + His Tag) KDa

PNP, human recombinant protein - Additional Info

Gene ID	4860
Gene Symbol	PNP
Other Names	
Purine nucleoside phosphorylase, NP, Inosine phosphorylase, PRO1837, PUNP	

Gene Source	Human
Source	E.coli
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	Specific activity is > 40,000 pmol/min/ µg
Sequence	MGSSHHHHHH SSGLVPRGSH MENGTYEDY KNTAEWLLSH TKHRPQVAII CGSGLGGLTD KLTQAQIFDY GEIPNFPRST VPGHAGRLVF GFLNGRACVM MQGRFHHMYEG YPLWKVTFPV RVFHLLGVDLT LVVTNAAGGL NPKFEVGDIM LIRDHINLPG FSGQNPLRGP NDERFGDRFP AMSDAYDRMT RQRALSTWKQ MGEQRELQEG TYVMVAGPSF ETVAECRVLQ KLGADAVGMS TVPEVIVARH CGLRVFGFSL ITNKVIMDYE SLEKANHEEV LAAGKQAAQK LEQFVSILMA SIPLPDKAS

Target/Specificity

PNP

Format

Liquid

Storage

-20°C; 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2 mM DTT and 0.1 M NaCl

PNP, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PNP, human recombinant protein - Images

PNP, human recombinant protein - Background

PNP belongs to the PNP/MTAP phosphorylase family of proteins. This protein catalyzes the reversible phosphorylation 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. Recombinant human PNP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques

PNP, human recombinant protein - References

Williams S.R.,et al.Nucleic Acids Res. 12:5779-5787(1984).
Williams S.R.,et al.J. Biol. Chem. 262:2332-2338(1987).
Yu L.,et al.Environ. Health Perspect. 111:1421-1427(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ebert L.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.