

# PNP, human recombinant

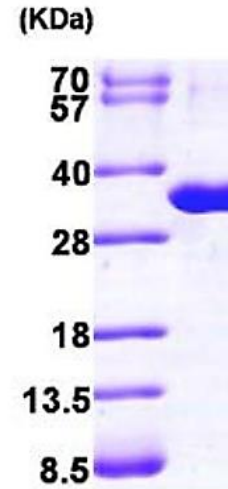
|                         |   |        |
|-------------------------|---|--------|
| <b>CATALOG #:</b>       | 7831-100  | 100 µg |
| <b>ALTERNATE NAMES:</b> | Purine nucleoside phosphorylase, NP, Inosine phosphorylase, PRO1837, PUNP                           |        |
| <b>SOURCE:</b>          | E. Coli   |        |
| <b>PURITY:</b>          | > 90% by SDS - PAGE   |        |
| <b>MOL. WEIGHT:</b>     | 34.2 kDa (309 aa, 1-289 aa + His Tag)   |        |
| <b>FORM:</b>            | Liquid  |        |
| <b>FORMULATION:</b>     | 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2 mM DTT and 0.1 M NaCl |        |

**STORAGE CONDITIONS:** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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

**AMINO ACID SEQUENCE:** MGSSHHHHHH SSGLVPRGSH MENGTYEDY KNTAEWLLSH TKHRPQVAII CGSGLGGLTD KLTQAQIFDY GEIPNFPRST VPGHAGRLVF GFLNGRACVM MQGRFHMYEG YPLWKVTFPV RVFHLLGVDT LVVTNAAAGGL NPKFEVGDIM LIRDHINLPG FSGQNPLRGP NDERFGDRFP AMSDAYDRTM RQRALSTWKQ MGEQRELQEG TYVMVAGPSF ETVAECRVLQ KLGADAVGMS TVPEVIVARH CGLRVFGFSL ITNKVIMDYE SLEKANHEEV LAAGKQAAQK LEQFVSILMA SIPLPKAS

**BIOLOGICAL ACTIVITY:** Specific activity is > 40,000 pmol/min/µg. One unit will form 1.0 pmole of 7-Methyl-6-thioguanosine to 7-Methyl-6-thioguanine per minute at PH 7.5 at 25°C



15% SDS-PAGE (3ug)

Human Recombinant PNP

**RELATED PRODUCTS:**

- Proteins and Enzymes

**FOR RESEARCH USE ONLY! Not to be used in humans.**

