

PNP, 1-289aa, Human, His tag, E.coli

Cat.NO.: TP03447

3th Edition

Synonyms:Purine nucleoside phosphorylase, NP, Inosine phosphorylase, PRO1837, PUNP.

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 Tlymphocyte function and neurologic disorder in children, comprising four percent of combined immunodeficiency cases.

Form:Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 2mM DTT, 10% glycerol

Molecular Weight:34.2 kDa (309aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMENGTYEDYKNTAEWLLSHTKHRPQVAIICGSGLGGLTDKLTQAQIFDYGEIPNF
PRSTVPGHAGRLVFGFLNGRACVMMQGRFHMIEGYPLWKVTFPVRVFHLLGVDTLVVTNAAGGLNPKFEVGDIM
LIRDHINLPGFSGQNPLRGPNDERFGDRFPAMSDAYDRTMRQRALSTWKQMGEQRELQEGTYVMVAGPSFETVA
ECRVLQKLGADAVGMSTVPEVIVARHCGLRVFGFSLITNKVIMDYESLEKANHEEVLAAGKQAAQKLEQFVSILMASI
PLPKAS

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage: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.