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Product datasheet for PH310759

Nucleoside phosphorylase (PNP) (NM_000270) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PNP MS Standard C13 and N15-labeled recombinant protein (NP_000261)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210759
Predicted MW:	32.1 kDa
Protein Sequence:	>RC210759 protein sequence Red=Cloning site Green=Tags(s) MENGYTYEDYKNTAEWLLSHTKHRPQVAIICGSGLGGLTDKLTQAQIFDYGEIPNFPRSTVPGHAGRLVF GFLNGRACVMMQGRFHMYEGYPLWKVTFPVRVFHLLGVDTLVVTNAAGGLNPKFEVGDIMLIRDHINLPG FSGQNPLRGPNDERFGDRFPAMSDAYDRTMRQRALSTWKQMGEQRELQEGTYVMVAGPSFETVAECRVLQ KLGADAVGMSTVPEVIVARHCGLRVFGFSLITNKVIMDYESLEKANHEEVLAAGKQAAQKLEQFVSILMA SIPLPDKAS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000261
RefSeq Size:	2438
RefSeq ORF:	867
Synonyms:	NP; PRO1837; PUNP
Locus ID:	4860

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UniProt ID: P00491, V9HWH6

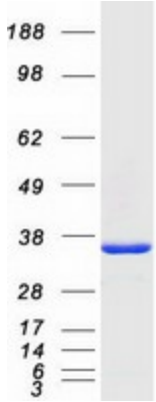
Cytogenetics: 14q11.2

Summary: This gene encodes an enzyme which reversibly catalyzes the phosphorolysis of purine nucleosides. The enzyme is trimeric, containing three identical subunits. Mutations which result in nucleoside phosphorylase deficiency result in defective T-cell (cell-mediated) immunity but can also affect B-cell immunity and antibody responses. Neurologic disorders may also be apparent in patients with immune defects. A known polymorphism at aa position 51 that does not affect enzyme activity has been described. A pseudogene has been identified on chromosome 2. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Metabolic pathways, Nicotinate and nicotinamide metabolism, Purine metabolism, Pyrimidine metabolism

Product images:



Coomassie blue staining of purified PNP protein (Cat# [TP310759]). The protein was produced from HEK293T cells transfected with PNP cDNA clone (Cat# [RC210759]) using MegaTran 2.0 (Cat# [TT210002]).