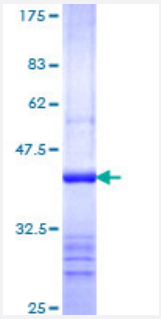
NP (Human) Recombinant Protein (Q01)

Catalog # H00004860-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human NP partial ORF (NP_000261, 174 a.a. - 283 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	ALSTWKQMGEQRELQEGTYVMVAGPSFETVAECRVLQKLGADAVGMSTVPEVIVARHCGLRVF GFSLITNKVIMDYESLEKANHEEVLAAGKQAAQKLEQFVSILMASIP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (85); Rat (77)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NP

Entrez GeneID	4860
GeneBank Accession#	NM_000270
Protein Accession#	NP_000261
Gene Name	NP
Gene Alias	FLJ94043, FLJ97288, FLJ97312, MGC117396, MGC125915, MGC125916, PNP, PRO1837, PUNP
Gene Description	nucleoside phosphorylase
Omim ID	164050
Gene Ontology	Hyperlink
Gene 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
Other Designations	inosine phosphorylase|purine nucleoside phosphorylase

Pathway

- Biosynthesis of alkaloids derived from histidine and purine
- Metabolic pathways

- Nicotinate and nicotinamide metabolism
- Purine metabolism
- Pyrimidine metabolism

Disease

- Alzheimer disease
- Cognition Disorders
- Disease Progression
- Genetic Predisposition to Disease