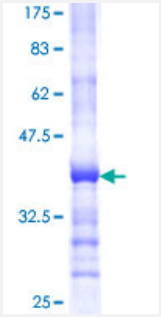
PNPO (Human) Recombinant Protein (Q01)

Catalog # H00055163-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PNPO partial ORF (NP_060599, 163 a.a. - 261 a.a.) recombinant protein with GST-tag at N -terminal.
Sequence	KSSQIGAVVSHQSSVIPDREYLRKKNEELEQLYQDQEVPKPKSWGGYVLYPQVMEFWQGQTNRL HDRIVFRRGLPTGDSPLGPMTHRGEEDWLYERLAP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (90); Rat (89)
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 — PNPO

Entrez GeneID	55163
GeneBank Accession#	NM_018129
Protein Accession#	NP_060599
Gene Name	PNPO
Gene Alias	FLJ10535, PDXPO
Gene Description	pyridoxamine 5'-phosphate oxidase
Omim ID	603287 610090
Gene Ontology	Hyperlink
Gene Summary	The enzyme encoded by this gene catalyzes the terminal, rate-limiting step in the synthesis of pyri doxal 5'-phosphate, also known as vitamin B6. Vitamin B6 is a required co-factor for enzymes inv olved in both homocysteine metabolism and synthesis of neurotransmitters such as catecholamin e. Mutations in this gene result in pyridoxamine 5'-phosphate oxidase (PNPO) deficiency, a form of neonatal epileptic encephalopathy. [provided by RefSeq
Other Designations	pyridoxal 5'-phosphate synthase|pyridoxine 5'-phosphate oxidase

Pathway

- Metabolic pathways
- Vitamin B6 metabolism

Disease

- Genetic Predisposition to Disease
- Schizophrenia