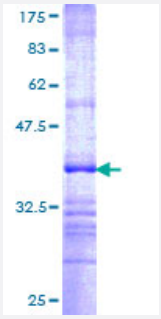
BPNT1 (Human) Recombinant Protein (Q01)

Catalog # H00010380-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human BPNT1 partial ORF (NP_006076, 1 a.a. - 100 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MASSNTVLMRLVASAYSIAQKAGMIVRRVIAEGDLGIVEKTCATDLQTKADRLAQMSICSSLARKF PKLTIIGEEDLPSEEVDQELIEDSQWEEILKQPC
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (93)
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 — BPNT1

Entrez GeneID	10380
GeneBank Accession#	NM_006085
Protein Accession#	NP_006076
Gene Name	BPNT1
Gene Alias	PIP
Gene Description	3'(2'), 5'-bisphosphate nucleotidase 1
Omim ID	604053
Gene Ontology	Hyperlink
Gene Summary	BPNT1, also called bisphosphate 3-prime-nucleotidase, or BPntase, is a member of a magnesium-dependent phosphomonoesterase family. Lithium, a major drug used to treat manic depression, acts as an uncompetitive inhibitor of BPntase. The predicted human protein is 92% identical to mouse BPntase. BPntase's physiologic role in nucleotide metabolism may be regulated by inositol signaling pathways. The inhibition of human BPntase may account for lithium-induced nephrotoxicity. [provided by RefSeq
Other Designations	BPntase|OTTHUMP00000035564|PAP-inositol-1,4-phosphatase|bisphosphate 3'-nucleotidase

Pathway

- Sulfur metabolism

Disease

- Genetic Predisposition to Disease
- Ovarian Neoplasms