

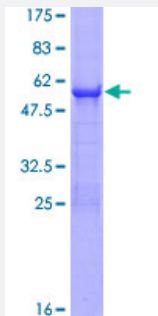
## Full-Length

# BPNT1 (Human) Recombinant Protein (P01)

Catalog # H00010380-P01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human BPNT1 full-length ORF ( NP_006076.3, 1 a.a. - 261 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	<p>           MASSNTVLMRLVASAYSIAQKAGMIVRRVIAEGDLGVEKTCATDLQTKADRLAQMSICSSLARKF            PKLTIIGEEDLPSEEVDQELIEDSQWEEILKQPCPSQYSAIKEEDLVVWVDPLDGTKEYTEGLLDN            VTVLIGIAYEGKAIAGVINQPYNYEAGPDAVLGRTWGVGLGAFGFQLKEVPAGKHIITTRSHSNK            LVTDCVAAMNPDAVLRVGGAGNKIIQLIEGKASAYVFASPGCKKWDTCAPEVILHAVGAS         </p>
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	54.5
<b>Interspecies Antigen Sequence</b>	Mouse (93)
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	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\\_006085.3](#)

Protein Accession# [NP\\_006076.3](#)

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](#)