

## Recombinant Human BPNT1, His-tagged

**Cat. No.** BPNT1-27671TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human BPNT1 with an N terminal His tag; 344 amino acids with a predicted MWt 37.5 kDa including tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	308 amino acids
<b>Description</b>	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. BPntases physiologic role in nucleotide metabolism may be regulated by inositol signaling pathways. The inhibition of human BPntase may account for lithium-induced nephrotoxicity.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	37.500kDa inclusive of tags
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 10% Glycerol, 0.1M Sodium chloride, 5mM DTT,

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20mM Tris HCl, pH 8.0

**Storage**

Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Sequences of amino acids**

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMASNTVLMRLVASAYS  
 IAQKAGMIVRRVIAEGDLGIVEKTCATDLQTKADRLAQMSICSSLARKFPKLTIIIGEDL  
 PSEEVDQELIEDSQWEEILKQPCPSQYSAIKEEDLVVWVDPLDGTKEYTEGLLDNVT  
 VLIGIAYEGKAIAGVINQPYNYEAGPDAVLGRTIWGVLGLGAFGFQLKEVPAGKHIIT  
 TTRSHSNKLVTDCAAMNPDAVLRVGGAGNKIIQLIEGKASAYVFASPGCKKWDTC  
 PEVILHAVGGKLTDIHGNVLQYHKDVKHMNSAGVLATLRNYDYYASRVPESIKNALV  
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## GENE INFORMATION

**Gene Name**

BPNT1 3(2), 5-bisphosphate nucleotidase 1 [ Homo sapiens ]

**Official Symbol**

BPNT1

**Synonyms**

BPNT1; 3(2), 5-bisphosphate nucleotidase 1; 3(2),5-bisphosphate nucleotidase 1;

**Gene ID**

10380

**mRNA Refseq**

NM\_006085

**Protein Refseq**

NP\_006076

**MIM**

604053

**Uniprot ID**

O95861

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<b>Chromosome Location</b>	1q42
<b>Pathway</b>	Biological oxidations, organism-specific biosystem; Cytosolic sulfonation of small molecules, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Phase II conjugation, organism-specific biosystem;
<b>Function</b>	3(2),5-bisphosphate nucleotidase activity; hydrolase activity; magnesium ion binding;

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