

# Recombinant Human BPNT1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. BPNT1-4946H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	BPNT1 MS Standard C13 and N15-labeled recombinant protein (NP_006076) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<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. 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.
<b>Molecular Mass</b>	33.2 kDa
<b>AA Sequence</b>	<p>           MASSNTVLMRLVASAYSIAQKAGMIVRRVIAEGDLGIVEKTCATDLQTKADRLAQMSI            CSSLARKFPKLTIIIGEEDLPSEEVDQELIEDSQWEEILKQPCPSQYSAIKEEDLVVWV            DPLDGTKEYTEGLLDNVTVLIGIAYEGKAIAGVINQPYNYEAGPDAVLGRTIWGVLG            LGAFGFQLKEVPAGKHIITTRSHSNKLVTDCAAMNPDAVLRVGGAGNKIIQLIEGK            ASAYVFASPGCKKWDTCAPEVILHAVGGKLTDIHGNVLQYHKDVKHMNSAGVLATL            RNYDYYASRVPESIKNALVPTRTRPLEQKLISEEDLAANDILDYKDDDDKV         </p>
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

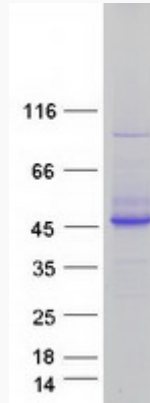
<b>Gene Name</b>	BPNT1 3'(2'), 5'-bisphosphate nucleotidase 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	BPNT1
<b>Synonyms</b>	BPNT1; 3(2), 5-bisphosphate nucleotidase 1; 3(2),5-bisphosphate nucleotidase 1; BPntase; PAP-inositol-1,4-phosphatase; bisphosphate 3-nucleotidase 1; PIP;
<b>Gene ID</b>	10380
<b>mRNA Refseq</b>	NM_006085
<b>Protein Refseq</b>	NP_006076
<b>MIM</b>	604053
<b>UniProt ID</b>	O95861

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**SDS-PAGE**



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