

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

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

SPECIFICATION

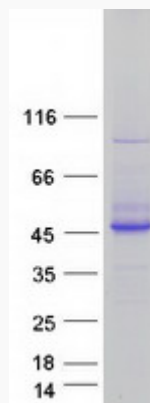
Product Overview	BPNT1 MS Standard C13 and N15-labeled recombinant protein (NP_006076) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	BPNT1, also called bisphosphate 3-prime-nucleotidase, or BPntase, is a member of a magnesium-dependent phosphomonoesterase 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.
Molecular Mass	33.2 kDa
AA Sequence	MASSNTVLMRLVASAYSIAQKAGMIVRRVIAEGDLGIVEKTCATDLQTKADRLAQMSI CSSLARKFKPKLTIIGEDLPSEEVDQELIEDSQWEEILKQPCPSQYSAIKEEDLVVWV DPLDGTKEYTEGLLDNVTVLIGIAYEGKAIAGVINQPYNYEAGPDAVLGRTIWGVLG LGAFGFQLKEVPAGKHIITTRSHSNKLVTDCAAMNPDAVLRVGGAGNKIIQLIEGK ASAYVFASPGCKKWDTCAPVILHAVGGKLTDIHGNVLQYHKDVKHMNSAGVLATL RNYDYYASRVPEIKNALVPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	BPNT1 3'(2'), 5'-bisphosphate nucleotidase 1 [Homo sapiens (human)]
Official Symbol	BPNT1
Synonyms	BPNT1; 3(2), 5-bisphosphate nucleotidase 1; 3(2),5-bisphosphate nucleotidase 1; BPntase; PAP-inositol-1,4-phosphatase; bisphosphate 3-nucleotidase 1; PIP;
Gene ID	10380
mRNA Refseq	NM_006085
Protein Refseq	NP_006076
MIM	604053
UniProt ID	O95861

SDS-PAGE

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