

Recombinant Human BPNT1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant full length Human BPNT1 with an N terminal His tag; 344 amino acids with a predicted MWt 37.5 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	308 amino acids
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. BPntases physiologic role in nucleotide metabolism may be regulated by inositol signaling pathways. The inhibition of human BPntase may account for lithium-induced nephrotoxicity.
Conjugation	HIS
Molecular Weight	37.500kDa inclusive of tags
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	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
IAQKAGMIVRRVIAEGDLGIVEKTCATDLQTKADRLAQMSICSSLARKFPKLTIGGEEDL
PSEEVDQELIEDSQWEEILKQPCPSQYSAIKEEDLVVWVDPLDGTKEYTEGLLDNVT
VLIGIAYEGKAIAGVINQPYNYEAGPDAVLGRTIWGVLGLGAFGFQLKEVPAGKHIIT
TTRSHSNKLVTDCAAMNPDAVLRVGGAGNKIIQLIEGKASAYVFASPGCKKWDTC
PEVILHAVGGKLTDIHGNVLQYHKDVKHMNSAGVLATLRNYDYYASRVPESIKNALV
P

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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Chromosome Location	1q42
Pathway	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;
Function	3(2),5-bisphosphate nucleotidase activity; hydrolase activity; magnesium ion binding;

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