Recombinant Full Length Human BPNT1 Protein, GST-tagged

Cat. No. BPNT1-3773HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BPNT1 full-length ORF (NP_006076.3, 1 a.a. - 261 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	261 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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	54.5 kDa
AA Sequence	MASSNTVLMRLVASAYSIAQKAGMIVRRVIAEGDLGIVEKTCATDLQTKADRLAQMSI CSSLARKFPKLTIIGEEDLPSEEVDQELIEDSQWEEILKQPCPSQYSAIKEEDLVVWV DPLDGTKEYTEGLLDNVTVLIGIAYEGKAIAGVINQPYYNYEAGPDAVLGRTIWGVLG LGAFGFQLKEVPAGKHIITTTRSHSNKLVTDCVAAMNPDAVLRVGGAGNKIIQLIEGK ASAYVFASPGCKKWDTCAPEVILHAVGAS

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Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; 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

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