

## Product datasheet for **AR09823PU-L**

### **BPNT1 (1-308, His-tag) Human Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	BPNT1 (1-308, His-tag) human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MRGSHHHHHH</u> <u>GMASMTGGQQ</u> <u>MGRDLYDDDD</u> <u>KDRWGSM</u> ASS NTVLMRLVAS AYSIAQKAGM IVRRVIAEGD LGIVEKTCAT DLQTKADRLA QMSICSSLAR KFPKLTIIIGE EDLPSEEVDQ ELIEDSQWEE ILKQPCPSQY SAIKEEDLW WVDPLDGTKE YTEGLLDNVT VLIAYEGK AIAGVINQPY YNYEAGPDAV LGRTIWGVLG LGAFGFQLKE VPAGKHIITT TRSHSNKLV DCVAAMNPDA VLRVGGAGNK IIQLIEGKAS AYVFASPGCK KWDTCAPEVI LHAVGGKLT IHGNVLQYHK DVKHMNSAGV LATLRNYDYY ASRVPESIKN ALVP
Tag:	His-tag
Predicted MW:	37.5 kDa
Concentration:	lot specific
Purity:	>90%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 5 mM DTT, 0.1M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human BPNT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_001273078</u>
Locus ID:	10380
UniProt ID:	<u>O95861</u>
Cytogenetics:	1q41
Synonyms:	HEL20; PIP



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**Summary:**

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. [provided by RefSeq, Jul 2008]

**Protein Pathways:**

Sulfur metabolism

**Product images:**