

## Product datasheet for **TP316622L**

### **BPNT1 (NM\_006085) Human Recombinant Protein**

#### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human 3'(2'), 5'-bisphosphate nucleotidase 1 (BPNT1), 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC216622 representing NM\_006085

**Red**=Cloning site **Green**=Tags(s)

MASSNTVLMRLVASAYSIAQKAGMIVRRVIAEGDLGIVEKTCATDLQTKADRLAQMSICSSLARKFPKLT  
IIIEEDLPSEEVDQELIEDSQWEEILKQPCPSQYSAIKEEDLVWVDPDLDGTKEYTEGLLDNVTVLIGIA  
YEGKAIAGVINQPYNYEAGPDAVLGRTIWGVLGLGAFGFQLKEVPAGKHIIITTRSHSNKLVTDCAAM  
NPDAVLRVGGAGNKIIQLIEGKASAYVFASPGCKKWDTCAPVILHAVGGKLDIHNVLQYHKDKVHMMN  
SAGVLATLRNYDYASRVPEIKNALVP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 33.2 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_006076](#)

**Locus ID:** 10380



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UniProt ID: [O95861](#), [V9HWF9](#)

RefSeq Size: 2461

Cytogenetics: 1q41

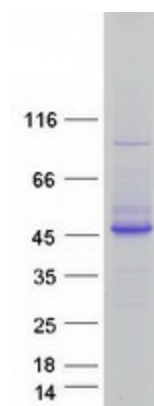
RefSeq ORF: 924

Synonyms: HEL20; PIP

**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:



Coomassie blue staining of purified BPNT1 protein (Cat# [TP316622]). The protein was produced from HEK293T cells transfected with BPNT1 cDNA clone (Cat# [RC216622]) using MegaTran 2.0 (Cat# [TT210002]).