

Product datasheet for **TP316622**

BPNT1 (NM_006085) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human 3'(2'), 5'-bisphosphate nucleotidase 1 (BPNT1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC216622 representing NM_006085 Red =Cloning site Green =Tags(s)
	<p>MASSNTVLMRLVASAYSIAQKAGMIVRRVIAEGDLGIVEKTCATDLQTKADRLAQMSICSSLARKFPKLT IIG EEDLPSEEVDQELIEDSQWEEILKQPCPSQYS AIKEEDLVWVDPDLDGTKEYTEGLLDNVTVLIGIA YEGKAIAGVINQPYNYEAGPDAVLGRTIWGVLGLGAFGFQLKEVPAGKHIIITTRSHSNKLVTDCAAM NPDAVLRVGGAGNKIIQLIEGKASAYVFASPGCKKWDTCAP E VILHAVGGKLTDIHGNVLQYHKDVKHMM SAGVLATLRNYDYASRVPESIKNALVP</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
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:	<u>NP_006076</u>
Locus ID:	10380



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

RefSeq Size: 2461

Cytogenetics: 1q41

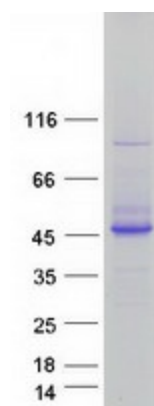
RefSeq ORF: 924

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]).