

Product datasheet for PH316622

BPNT1 (NM_006085) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	BPNT1 MS Standard C13 and N15-labeled recombinant protein (NP_006076)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216622
Predicted MW:	33.2 kDa
Protein Sequence:	>RC216622 representing NM_006085 Red =Cloning site Green =Tags(s) MASSNTVLMRLVASAYSIAQKAGMIVRRVIAEGDLGIVEKTCATDLQTKADRLAQMSICSSLARKFPKLT IIGEDLPSEEVDQELIEDSQWEEILKQPCPSQYSAIKEEDLVVWVDPLDGTKEYTEGLLDNVTVLIGIA YEGKAIAGVINQPYNYEAGPDAVLGRTIWGVLGLGAFGFQLKEVPAGKHIITTTTRSHSNKLVTDCAAM NPDAVLRVGGAGNKIIQLIEGKASAYVFASPGCKKWDTCAPEVILHAVGGKLTDIHGNVLQYHKDVKHMN SAGVLATLRNYDYASRVPESIKNALVP TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_006076</u>
RefSeq Size:	2461
RefSeq ORF:	924
Synonyms:	HEL20; PIP
Locus ID:	10380



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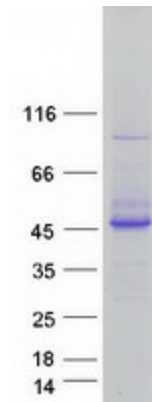
UniProt ID: [O95861](#), [V9HWF9](#)

Cytogenetics: 1q41

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]).