

## 32-2194: BPNT1 Recombinant Protein

**Alternative Name :** 3'(2'),5'-bisphosphate nucleotidase 1,Bisphosphate 3'-nucleotidase 1,PAP-inositol-1,4-phosphatase,PIP,EC 3.1.3.7,BPntase.

### Description

Source : Escherichia Coli. BPNT1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 344 amino acids (1-308a.a.) and having a molecular mass of 37.5kDa.BPNT1 is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. BPNT1 belongs to the magnesium-dependent, lithium-sensitive phosphomono-esterase superfamily. BPNT1 catalyzes the conversion of PAPS (adenosine 3'-phosphate 5' phosphosulfate) to APS (adenosine 5'-phosphosulfate) and the conversion of PAP (3'(2')-phosphoadenosine 5' phosphate) to AMP (adenosine 5'-phosphate) using magnesium as a cofactor. BPNT1 is expressed everywhere but at maximum levels in brain and kidney. BPNT1 is potently inhibited by lithium, a drug used for the treatment of manic depression and bipolar affective disorder, which suggests that BPNT1 has a possible role in the etiology of mood disorders.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 90% as determined by SDS-PAGE.
<b>Content :</b>	The BPNT1 protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 5mM DTT, 0.1M NaCl and 10% glycerol.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.Please avoid freeze thaw cycles.
<b>Amino Acid :</b>	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMAS NTVLMRLVAS AYSIAQKAGM IVRRVIAEGD LGIVEKTCAT DLQTKADRLA QMSICSSLAR KFPKLTIIIGE EDLPSEEVDQ ELIEDSQWEE ILKQPCPSQY SAIKEEDLVV WVDPLDGTKE YTEGLLDNVT VLI GIAYEGK AIAGVINQPY YN YEAGPDAV LGR TIWGV LG LGAFGFQLKE VPAGKHIITT TRSHSNKLV T DCVAAMNPDA VLRVGGAGNK IIQLIEGKAS AYVFASPGCK KWDTCAPEVI LHAVGGKLT D IHGNVLQYHK DVKHMNSAGV LATLRNYDYY ASRVPESIKN ALVP