

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

Amount :	10 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	The BPNT1 protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 5mM DTT, 0.1M NaCl and 10% glycerol.
Storage condition :	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.
Amino Acid :	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMAS NTVLMRLVAS AYSIAQKAGM IVRRVIAEGD LGIVEKTCAT DLQTKADRLA QMSICSSLAR KFPKLTIIGE EDLPSEEVDQ ELIEDSQWEE ILKQPCPSQY SAIKEEDLVV WVDPLDGTKE YTEGLLDNVT VLI GIAYEGK AIAGVINQPY YN YEAGPDAV LGRTIWGV LG LGAFGFQLKE VPAGKHIITT TRSHSNKLV DCVAAMNPDA VLRVGGAGNK IIQLIEGKAS AYVFASPGCK KWDTCAPEVI LHAVGGKLT D IHGNVLQYHK DVKHMNSAGV LATLRNYDYY ASRVPESIKN ALVP

