

BPNT1 Human

Description: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.

Catalog #:ENPS-068

For research use only.

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

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered clear solution.

Amino Acid Sequence:MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMASST
NTVLMRLVAS AYSIAQKAGM IVRRIAEGD LGIVEKTCAT DLQTKADRLA QMSICSSLAR
KFKPLTIIGE EDLPSEEVQ ELIEDSQWEE ILKQPCPSQY SAIKEEDLVV WVDPLDGTKE
YTEGLLDNVT VLIGIAYEGK AIAGVINQPY YNYEAGPDAV LGRTIWGVLG LGAFGFQLKE
VPAGKHITT TR

Purity:Greater than 90% as determined by SDS-PAGE.

Formulation:

The BPNT1 protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 5mM DTT, 0.1M NaCl and 10% glycerol.

Usage:

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

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 potentially 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.

Storage:

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.

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