

BPNT1, 1-308aa, Human, His tag, E.coli

Cat.NO.: TP01363

3th Edition

Synonyms:3'(2'), 5'-bisphosphate nucleotidase 1; PIP, PAP-inositol-1,4-phosphatase.

Description:BPNT1, also known as BPntase, PAP phosphatase or PIP (PAP-inositol-1,4-phosphatase), is a member of the magnesium-dependent, lithium-sensitive phosphomono-esterase superfamily. Using magnesium as a cofactor, 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).

Form:Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 5mM DTT, 0.1M NaCl.

Molecular Weight:37.5 kDa (344aa), confirmed by MALDI-TOF

Sequences:

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMASNTVLMRLVASAYSIAQKAGMIVRRVIAEGDLGI
VEKTCATDLQTKADRLAQMSICSSLARKFKPLTIIGEEEDLPSEEVDQELIEDSQWEEILKQPCPSQYS AIKEEDLVVW
VDPLDGTKEYTEGLLDNVTVLIGIAYEGKAIAGVINQPYNYEAGPDAVLGRTIWGVLGLGAFGFQLKEVPAGKHIITT
TRSHSNKLVTDCAAMNPDAVLRVGGAGNKIQLIEGKASAYVFASPGCKKWDTCAPEVILHAVGGKLTDIHGNVLQ
YHKDVKHMNSAGVLATLRNYDYASRVPESIKNALVP

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.