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32-2470: IMPA2 Recombinant Protein

Alternative Name : Inositol monophosphatase 2,IMP 2,IMPase 2,Inositol-1(or 4)-monophosphatase 2,Myo-inositol monophosphatase A2,IMPA2,IMP.18P.

Description

Source : Escherichia Coli. IMPA2 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 308 amino acids (1-288 a.a.) and having a molecular mass of 33.5kDa. The IMPA2 is purified by proprietary chromatographic techniques. IMPA2 is a member of the inositol monophosphatase family. IMPA2 catalyzes the dephosphoylration of inositol monophosphate and has a significant role in phosphatidylinositol signaling. IMPA2 can use the myo-inositol monophosphates, scylloinositol 1,4-diphosphate, glucose-1-phosphate, beta-glycerophosphate, and 2'-AMP as substrates. IMPA2 is a pharmacological target for lithium Li(+) action in brain. IMPA2 is considered to have a role in schizophrenia and bipolar disorder.

Product Info

Amount :	10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	The IMPA2 solution (0.25 mg/ml) contains 20mM Tris-HCl buffer(pH 8.0), 10% glycerol and 2mM DTT.
Storage condition :	IMPA2 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MKPSGEDQAA LAAGPWEECF QAAVQLALRA GQIIRKALTE EKRVSTKTSA ADLVTETDHL VEDLIISELR ERFPSHRFIA EEAAASGAKC VLTHSPTWII DPIDGTCNFV HRFPTVAVSI GFAVRQELEF GVIYHCTEER LYTGRRGRGA FCNGQRLRVS GETDLSKALV LTEIGPKRDP ATLKLFLSNM ERLLHAKAHG VRVIGSSTLA LCHLASGAAD AYYQFGLHCW DLAAATVIIR EAGGIVIDTS GGPLDLMACR VVAASTREMA MLIAQALQTI NYGRDDEK.