

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 dephosphorylation 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
 EKRVS TKTS A ADLV TETDHL VEDLI ISEL R ERFPS HRFIA EEAAS GAKC VLTHSPTWII DPIDGTCNFV
 HRFPTVA VSI GFAVRQE LEF GVIYHCTEER LYTGR RGRGA FCNGQRLRVS GETDLSKALV LTEIGPKRDP
 ATCLKFLSNM ERL LHAKAHG VRVIGSSTLA LCHLASGAAD AYYQFGLHCW DLAAATVIIR EAGGIVIDTS
 GGPLDLMACR VVAASTREMA MLIAQALQTI NYGRDDEK.

