

**IMPA2, 1-288aa, Human, His tag, E.coli**

**Cat.NO.: TP02654**

3th Edition

**Synonyms:**Inositol monophosphatase 2., Inositol(myo)-1(or 4)-monophosphatase 2.

**Description:**IMPA2 belongs to the inositol monophosphatase family. This protein can use myo-inositol monophosphates, scylloinositol 1,4-diphosphate, glucose-1-phosphate, beta-glycerophosphate, and 2'-AMP as substrates. IMPA2 has been implicated as the pharmacological target for lithium Li(+) action in brain. IMPA2 is thought to play a role in schizophrenia and bipolar disorder.

**Form:**Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol,2mM DTT.

**Molecular Weight:**33.5 kDa (308aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMKPSGEDQAALAAGPWEECFQAAVQLALRAGQIIRKALTEEKRVSTKTSAADLVT  
ETDHLVEDLIISLRERFPSHRFIAEEAAAASGAKCVLTHSPTWIIDPIDGTCNFVHRFPTVAVSIGFAVRQELEFGVIYH  
CTEERLYTGRRGRGAFCNGQRLRVSGETDLKALVLTEIGPKRDPATLKLFLSNMERLLHAKAHGVRVIGSSTLALC  
HLASGAADAYYQFGLHCWDLAAATVIIREAGGIVIDTSGGPLDLMACRVVAASTREMAMLIAQALQTINYGRDDEK

**Purity:**> 95% by HPLC

**Concentration:**0.25 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.