

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
ETDHLVEDLIISELRERFPSHRFIAEEAAAASGAKCVLTHSPTWIIDPIDGTCNFVHRFPTVAVSIGFAVRQELEFGVIYH
CTEERLYTGRRGRGAFNGQRLRVSGETDLKALVLTEIGPKRDPATLKLFLSNMERLLHAKAHGVRVIGSSTLALC
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.