

Recombinant Human IMPA2 protein, His-tagged

Cat. No. IMPA2-3454H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IMPA2(1-288aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-288 a.a.
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 Mass	33.5 kDa (308aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MKPSGEDQAA LAAGPWEECF QAAVQLALRA GQIIRKALTE EKRVSTKTSA ADLVTTDHL VEDLIISLR ERFPSHRFIA EEAAASGAKC VLTHSPTWII DPIDGTCNFV HRFPTVAVSI GFAVRQELEF GVIYHCTEER LYTGRRRGRGA FCNGQRLRVS GETDLSKALV LTEIGPKRDP ATLKLFLSNM ERLHAKAHG VRVIGSSTLA LCHLASGAAD AYYQFGLHCW DLAAATVIIR EAGGIVIDTS GGPLDLMACR VVAASTREMA MLIAQALQTI

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	NYGRDDEK
Purity	>95% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	IMPA2 inositol(myo)-1(or 4)-monophosphatase 2 [Homo sapiens]
Official Symbol	IMPA2
Synonyms	IMPA2; inositol(myo)-1(or 4)-monophosphatase 2; inositol monophosphatase 2; IMP 2; IMPase 2; inosine monophosphatase 2; myo-inositol monophosphatase A2; inositol monophosphatase 2 variant 1; inositol monophosphatase 2 variant 2;
Gene ID	3613
mRNA Refseq	NM_014214
Protein Refseq	NP_055029
MIM	605922
UniProt ID	O14732
Chromosome Location	18p11.2

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Pathway

D-myo-inositol (1,4,5)-trisphosphate degradation, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate degradation, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Inositol phosphate metabolism, Ins(1,3,4,5)P4 =>Ins(1,3,4)P3 => myo-inositol, organism-specific biosystem;

Function

hydrolase activity; inositol monophosphate 1-phosphatase activity; inositol monophosphate 3-phosphatase activity; inositol monophosphate 4-phosphatase activity; metal ion binding; protein homodimerization activity;

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