

Recombinant Human IMPA1, His-tagged

Cat. No. IMPA1-2824H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IMPA1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. MW = 32.3 kDa(297aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
Description	IMPA1 (inositol monophosphatase1) is responsible for the provision of inositol required for synthesis of phosphatidylinositol and polyphosphoinositides. It plays a key role in the phosphatidylinositol signaling pathway by catalyzing the hydrolysis of inositol monophosphates. This protein has been identified as the pharmacological target for lithium action in the brain.
Sequences Of Amino Acids	MGSSHHHHH SSGLVPRGSH MADPWQECMD YAVTLARQAG EVVCEAIKNE MNVMLKSSPV DLVTATDQKV EKMLISSIKE KYP SHSFIGE ESVAAGEKSI LTDNPTWIID PIDGTTNFVH RFPFVAVSIG FAVNKKIEFG VVYSCVEGKM YTARKGKGAF CNGQKLQVSQ QEDITKSLV TELGSSRTPE TVRMVLSNME KLFCIPVHGI RSVGTAAVNM CLVATGGADA YYEMGIHCWD VAGAGIIVTE AGGVLMDDVTG GPFDLMSRRV IAANNRILAE RIAKEIQVIP LQRDDED
Purity	> 95% by SDS - PAGE.
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol.

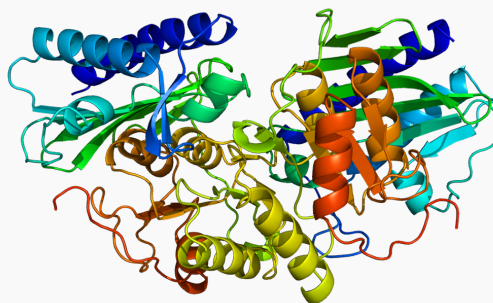
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Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	IMPA1 inositol(myo)-1(or 4)-monophosphatase 1 [Homo sapiens]
Synonyms	IMPA1; inositol(myo)-1(or 4)-monophosphatase 1; IMP; IMPA; inositol monophosphatase 1; IMP 1; IMPase 1; inositol-1(or 4)-monophosphatase 1; lithium-sensitive myo-inositol monophosphatase A1; EC 3.1.3.25
Gene ID	3612
mRNA Refseq	NM_001144878
Protein Refseq	NP_001138350
MIM	602064
UniProt ID	P29218
Chromosome Location	8q21.13-q21.3
Pathway	Inositol phosphate metabolism; Metabolic pathways; Phosphatidylinositol signaling system
Function	hydrolase activity; identical protein binding; inositol-1(or 4)-monophosphatase activity; metal ion binding; protein homodimerization activity

PDB rendering based
on 1awb.



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