

Inositol Monophosphatase 1 Recombinant Protein | IMPA1 recombinant protein

Recombinant Human Inositol Monophosphatase 1

CATALOG # AAA38870	HOST E Coli
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PRODUCT SYNONYMS

Inositol Monophosphatase 1; Recombinant Human Inositol Monophosphatase 1; IMPA1 Human; Inositol Monophosphatase 1 Human Recombinant; Inositol monophosphatase 1; IMP 1; IMPase 1; Inositol-1(or 4)-monophosphatase 1; Lithium-sensitive myo-inositol monophosphatase A1; IMPA1; IMPA; IMP; IMPA1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The IMPA1 solution (1 mg/ml) contains 20mM Tris-HCl Buffer (pH 8.0) and 10% Glycerol. Sterile Filtered colorless solution.
Sequence	MGSSHHH HHHSSGLVPR GSHMAD PWQECMDYAV TLARQAGEVV CEAIKNEMNV MLKSSPVDLV TATDQKVEKM LISSIEKYP SHSFIGEESV AAGEKSILTD NPTWIIDPID GTTNFVHRFP FVAVSIGFAV NKKIEFGVVY SCVEGKMYTA RKGKGAFcNG QKLQVSQQED ITKSLLVTEL GSSRTPETVR MVLSNMEKLF CIPVHGIRSV GTAAVNMCLV ATGGADAYYE MGIHCWDVAG AGIIVTEAGG VLMDVTGGPF DLMSRRVIAA NNRILAERIA KEIQVIPLQR DDED
Sequence Length	336
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for IMPA1 recombinant protein	Description: IMPA1 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 297 amino acids (1-277 a.a.) and having a molecular mass of 32.3kDa. The IMPA1 is purified by proprietary chromatographic techniques. Introduction: Inositol monophosphatase1 (IMPA1) is responsible for the provision of inositol essential for synthesis of phosphatidylinositol and polyphosphoinositides. IMPA1 has a central role in the phosphatidylinositol signaling pathway by catalyzing the hydrolysis of inositol monophosphates. IMPA1 has been recognized as the pharmacological target for lithium action in the brain. The IMPA1 enzyme has a magnesium-dependent phosphatase activity and is inhibited by therapeutic concentrations of lithium. Inhibition of inositol monophosphate hydrolysis and ensuing depletion of inositol for phosphatidylinositol synthesis may perhaps explain the anti-manic and anti-depressive effects of lithium administered to treat bipolar disorder.
Product Categories/Family for IMPA1 recombinant protein	Enzymes; Phosphatase

NCBI AND UNIPROT INFORMATION

NCBI GI #	221625487
NCBI GeneID	3612
NCBI Accession #	NP_001138350.1

NCBI GenBank Nucleotide #	NM_001144878.1
UniProt Accession #	P29218 ; Q9UK71 ; B2R733 ; B4DLN3 ; B7Z6Q4 ; J3KQT7
Molecular Weight	36,695 Da
NCBI Official Full Name	inositol monophosphatase 1 isoform 2
NCBI Official Synonym Full Names	inositol(myo)-1(or 4)-monophosphatase 1
NCBI Official Symbol	IMPA1
NCBI Official Synonym Symbols	IMP; IMPA
NCBI Protein Information	inositol monophosphatase 1; D-galactose 1-phosphate phosphatase; IMP 1; IMPase 1; inositol-1(or 4)-monophosphatase 1; lithium-sensitive myo-inositol monophosphatase A1
UniProt Protein Name	Inositol monophosphatase 1
UniProt Gene Name	IMPA1
UniProt Synonym Gene Names	IMP 1; IMPase 1
UniProt Entry Name	IMPA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/imp1-recombinant-protein-e-coli/38870>