

IMPase2 Protein, Human, Recombinant (His)

General Information

Synonyms:	Inositol-1(or 4)-Monophosphatase 2;IMPA2;IMP 2;IMPase 2;Inositol Monophosphatase 2; Myo-Inositol Monophosphatase A2;IMP.18P
Protein Construction:	Met1-Lys288
Species:	Human
Expression Host:	E. coli
Accession:	O14732
Molecular Weight:	30 KDa (reducing condition)
AA Sequence:	Met1-Lys288

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCL, 2 mM DTT, pH 8.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Inositol monophosphatase 2, also known as Inositol-1(or 4)-monophosphatase 2, Myo-inositol monophosphatase A2 and IMPA2, is an enzyme which belongs to the inositol monophosphatase family. IMPA2 catalyzes the dephosphorylation of inositol monophosphate with cofactor Magnesium and Inhibited by high Li⁺ and restricted Mg²⁺ concentrations. IMPA2 plays an important role in phosphatidylinositol signaling. IMPA2 can use the myo-inositol monophosphates, scylloinositol 1,4-diphosphate, glucose-1-phosphate, beta-glycerophosphate, and 2'-AMP as substrates. IMPA2 is a pharmacological target for lithium Li⁽⁺⁾ action in brain, it is considered to have a role in schizophrenia and bipolar disorder.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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