Product Name: Recombinant Human IMPase1 (N-6His)
Catalog #: PEH0940

Summary

Name	IMP1/IMPA1
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Inositol Monophosphatase 1 is produced by our E.coli expression system and the target gene encoding Met1-Asp277 is expressed with a 6His tag at the N-terminus.
Accession #	P29218
Host	E.coli
Species	Human
Predicted Molecular Mass	32.3 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.25.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image

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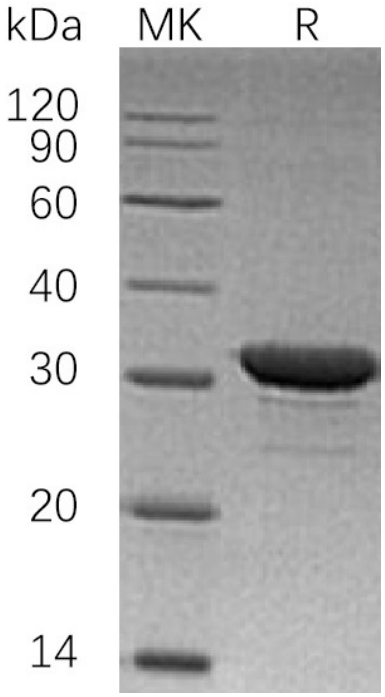

Alternative Names

Inositol Monophosphatase 1; IMP 1; IMPase 1; Inositol-1(or 4)-Monophosphatase 1; Lithium-Sensitive Myo-Inositol Monophosphatase A1; IMPA1; IMPA

Background

Inositol Monophosphatase 1 (IMPA1) belongs to the inositol monophosphatase family. IMPA1 is responsible for the provision of inositol required for synthesis of phosphatidylinositol and polyphosphoinositides, IMPA1 can use myo-inositol-1,3-diphosphate, myo-inositol-1,4-diphosphate, scyllo-inositol-phosphate, glucose-1-phosphate, glucose-6-phosphate, fructose-1-phosphate, beta-glycerophosphate, and 2-AMP as substrates. IMPA1 has been implicated as the pharmacological target for lithium action in brain. IMPA1 shows magnesium-dependent phosphatase activity and is inhibited by therapeutic concentrations of lithium. In addition, IMPA1 plays a improtant role in intracellular signal transduction.

Note

For Research Use Only , Not for Diagnostic Use.