

## 32-7212: Recombinant Human Inositol Monophosphatase 1/IMPA1/IIMPase 2 (N-6His)

**Gene :** IMPA1  
**Gene ID :** 3612  
**Uniprot ID :** P29218

### Description

Source: E.coli.  
MW :32.3kD.

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. 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 important role in intracellular signal transduction.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.25.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHSSGLVPRGSHMADPWQECMDYAVTLARQAGEVVCEAIKNEMNVMLKSSPVDLVTATDQKV  
EKMLISSIKEKYPSHSFIGEESVAAGEKSILTDNPTWIIDPIDGTTNFVHRFPFVAVSIGFAVNKKIEFGVVYSCVEG  
KMYTARKGKGAFcNGQKLQVSQQEDITKSLVTELGSRTPETVRMVLNMEKLFcIPVHGIRSVGTAAVNMCL  
VATGGADAYYEMGIHCWDVAGAGIIVTEAGGVLMVDVTGGPFDLMSRRVIAANNRILAEIAKEIQVIPLQRDDE  
D

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.