

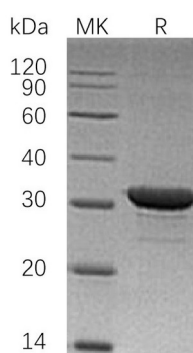
**Product Name: Recombinant Human IMPase1 (N-6His)**  
**Catalog #: PEH0940**



## Summary

<b>Name</b>	IMP1/IMPA1
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	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.
<b>Accession #</b>	P29218
<b>Host</b>	E.coli
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	32.3 KDa
<b>Formulation</b>	Supplied as a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.25.
<b>Shipping</b>	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	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.
<b>Reconstitution</b>	

## SDS-PAGE image



## Background

**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

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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.

### **Note**

For Research Use Only , Not for Diagnostic Use.