A Reliable Research Partner in Life Science and Medicine

## Recombinant Human IMP1/IMPA1 Protein (His Tag)

Catalog No. PKSH032590

Note: Centrifuge before opening to ensure complete recovery of vial contents.

## Description

**Synonyms** Inositol Monophosphatase 1;IMP 1;IMPase 1;Inositol-1(or 4)-Monophosphatase

1;Lithium-Sensitive Myo-Inositol Monophosphatase A1;IMPA1;IMPA

**Species** Human **Expression Host** E.coli

**Sequence** Met 1-Asp277

P29218 Accession Calculated Molecular Weight 32.3 kDa Observed molecular weight 30 kDa Tag N-His

**Bioactivity** Not validated for activity

## **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

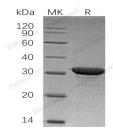
**Shipping** This product is provided as liquid. It is shipped at frozen temperature with blue

ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.25.

Reconstitution Not Applicable

#### Data



> 95 % as determined by reducing SDS-PAGE.

## 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 myoinositol-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

#### For Research Use Only

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inhibited by therapeutic concentrations of lithium. In addition, IMPA1 plays a improtant role in intracellular signal transduction.

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