

**Recombinant Human Inositol Monophosphatase 1/IMPA1/IIMPase 2 Protein(N-6His)**

**Cat.NO.: TP05809**

3th Edition

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

**Description:**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.

**Form:**PBS

**Molecular Weight:**32.3 kDa

**Sequences:**Met 1-Asp277

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.