

## 32-8050: Recombinant Human Inositol Monophosphatase 2/IMPase 2 (N-6His)(Discontinued)

**Gene :** IMPA2  
**Gene ID :** 3613  
**Uniprot ID :** O14732

### Description

Source: E.coli.  
MW :33.5kD.

Recombinant Human Inositol Monophosphatase 2 is produced by our E.coli expression system and the target gene encoding Met1-Lys288 is expressed with a 6His tag at the N-terminus. Inositol monophosphatase 2, also known as Inositol-1(or 4)-monophosphatase 2, Myo-inositol monophosphatase A2 and IMPA2, is an enzyme which belongs to the inositol monophosphatase family. IMPA2 catalyzes the dephosphorylation of inositol monophosphate with cofactor Magnesium and Inhibited by high Li<sup>+</sup> and restricted Mg<sup>2+</sup> concentrations. IMPA2 plays an important role in phosphatidylinositol signaling. IMPA2 can use the myo-inositol monophosphates, scylloinositol 1,4-diphosphate, glucose-1-phosphate, beta-glycerophosphate, and 2'-AMP as substrates. IMPA2 is a pharmacological target for lithium Li(+) action in brain, it is considered to have a role in schizophrenia and bipolar disorder.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM Tris, 2mM DTT, pH 8.0.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHHSSGLVPRGSHMKPSGEDQAALAAGPWEECFQAAVQLALRAGQIIRKALTEEKRVSTKTSAAD  
LVTETDHLVEDLIISELRERFPSHRFIAEEAAASGAKCVLTHSPTWIIDPIDGTCNFVHRFPTVAVSIGFAVRQELE  
FGVIYHCTEERLYTGRRGRGAFNGQRLRVSGETDLSKALVLTIGPKRDPATLKLFLSNMERLLHAKAHGVRVI  
GSSTLALCHLASGAADAYYQFGLHCWDLAAATVIIREAGGIVIDTSGGPLDLMACRVVAASTREMAMLIAQALQ  
TINYGRDDEK

### Application Note

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