

## IMPA2 Human

**Description:** IMPA2 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 308 amino acids (1-288 a.a.) and having a molecular mass of 33.5kDa. The IMPA2 is purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-077

For research use only.

**Synonyms:** Inositol monophosphatase 2, IMP 2, IMPase 2, Inositol-1(or 4)-monophosphatase 2, Myo-inositol monophosphatase A2, IMPA2, IMP.18P.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MKPSGEDQAA LAAGPWEECF  
QAAVQLALRA GQIIRKALTE EKRVTSTSA ADLVTTDHL VEDLIISLR ERFPSHRFIA  
EEAAASGAKC VLTHSPTWII DPIDGTCNFV HRFPTVAVSI GFAVRQELEF GVIYHCTEER  
LYTGRRGRGA FCNGQRLRVS GETDLSKALV LTEIGPKRDP ATLKLFLSNM ERLHAKAHG  
VRVIGSSTLA LC

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The IMPA2 solution (0.25 mg/ml) contains 20mM Tris-HCl buffer(pH 8.0), 10% glycerol and 2mM DTT.

### Stability:

IMPA2 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

IMPA2 is a member of the inositol monophosphatase family. IMPA2 catalyzes the dephosphorylation of inositol monophosphate and has a significant 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. IMPA2 is considered to have a role in schizophrenia and bipolar disorder.

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