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## Product Data Sheet

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Product Name: IMPA2 Human  
 Cat. No.: GP21828  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Inositol monophosphatase 2; IMP 2; IMPase 2; Inositol-1(or 4)-monophosphatase 2; Myo-inositol monophosphatase A2; IMPA2; IMP.18P.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MKPSGEDQAA LAAGPWEECF QAAVQLALRA GQIIRKALTE EKRVTSTSA ADLVTETDHL VEDLIISELR ERFPSHRFIA EAAAASGAKC VLTHSPTWII DPIDGTCNFV HRFPTVAVSI GFAVRQELEF GVIYHCTEER LYTGRRRGRGA FCNGQRLRVS GETDLSKALV LTEIGPKRDP ATLKLFLSNM ERLHAKAHG VRVIGSSTLA LCHLASGAAD AYYQFGLHCW DLAAATVIIR EAGGIVIDTS GGPLDLMACR VVAASTREMA MLIAQALQTI NYGRDDEK.		
Formulation	The IMPA2 solution (0.25 mg/ml) contains 20mM Tris-HCl buffer(pH 8.0), 10% glycerol and 2mM DTT.		

### 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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IMPA2 Human Recombinant fused with a20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing308 amino acids (1-288 a.a.) and having a molecular mass of 33.5kDa. The IMPA2 is purified by proprietary chromatographic techniques.

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