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## Datasheet for ABIN7318621 IMPA2 Protein (His tag)

### Overview

Quantity:	50 µg
Target:	IMPA2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IMPA2 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human IMPA2/IMPase 2 Protein (His Tag)
Sequence:	Met 1-Lys288
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	IMPA2
Alternative Name:	IMPA2/IMPase 2 ( <a href="#">IMPA2 Products</a> )
Background:	Background: 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

## Target Details

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.

Synonym: Inositol Monophosphatase 2, IMP 2, IMPase 2, Inositol-1(or 4)-Monophosphatase 2, Myo-Inositol Monophosphatase A2, IMPA2, IMP.18P

Molecular Weight:	33.5 kDa
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UniProt:	<a href="#">O14732</a>
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## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Frozen, Liquid
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Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 2 mM DTT, pH 8.0.
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Storage:	-20 °C
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Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
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