

全国订货电话 4008-723-722

## IMPA1 抗原(重组蛋白)

- 中文名称: IMPA1 抗原(重组蛋白)
- 英文名称: IMPA1 Antigen (Recombinant Protein)
- 别 名: inositol monophosphatase 1; IMP; IMPA
- 储存: 冷冻 (-20℃)
- 相关类别: 抗原

概述

Fusion protein corresponding to a region derived from 1-215AA amino acids of human IMPA1

## 技术规格

Full name:	inositol monophosphatase 1
Synonyms:	IMP; IMPA
Swissprot:	P29218
Gene Accession:	BC009565
Purity:	>85%, as determined by Coomassie blue stained SDS-PAGE
Expression system:	Escherichia coli
Tags:	His tag C-Terminus, GST tag N-Terminus
Background:	This gene encodes an enzyme that dephosphorylates myo-inositol mo nophosphate to generate free myo-inositol, a precursor of phosphatid ylinositol, and is therefore an important modulator of intracellular sig nal transduction via the production of the second messengers myoin ositol 1,4,5-trisphosphate and diacylglycerol. This enzyme can also use myo-inositol-1,3-diphosphate, myo-inositol-1,4-diphosphate, scyllo-inos itol-phosphate, glucose-1-phosphate, glucose-6-phosphate, fructose-1- phosphate, beta-glycerophosphate, and 2'-AMP as substrates. This enzyme shows magnesium-dependent phosphatase activity and is inhibite d by therapeutic concentrations of lithium. Inhibition of inositol mono



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phosphate hydroylosis and subsequent depletion of inositol for phosp hatidylinositol synthesis may explain the anti-manic and anti-depressiv e effects of lithium administered to treat bipolar disorder. Alternative splicing results in multiple transcript variants encoding distinct isofor ms. A pseudogene of this gene is also present on chromosome 8q21. 13.