Recombinant Human IMP1/IMPA1 Protein (His Tag)

Catalog Number:PKSH032590



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Inositol Monophosphatase 1;IMP 1;IMPase 1;Inositol-1(or 4)-Monophosphatase

1;Lithium-Sensitive Myo-Inositol Monophosphatase A1;IMPA1;IMPA

Species Human
Expression Host E.coli

Sequence Met 1-Asp277

AccessionP29218Calculated Molecular Weight32.3 kDaObserved molecular weight30 kDaTagN-His

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin $< 1.0 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$

Storage Storage Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

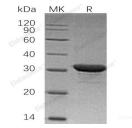
Shipping This product is provided as liquid. It is shipped at frozen temperature with blue

ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.25.

Reconstitution Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Inositol Monophosphatase 1 (IMPA1) belongs to the inositol monophosphatase family. IMPA1 is responsible for the provision of inositol required for synthesis of phosphatidylinositol and polyphosphoinositides, IMPA1 can use myoinositol-1,3-diphosphate, myo-inositol-1,4-diphosphate, scyllo-inositol-phosphate, glucose-1-phosphate, glucose-6-phosphate, fructose-1-phosphate, beta-glycerophosphate, and 2-AMP as substrates. IMPA1 has been implicated as the pharmacological target for lithium action in brain. IMPA1 shows magnesium-dependent phosphatase activity and is inhibited by therapeutic concentrations of lithium. In addition, IMPA1 plays a improtant role in intracellular signal transduction.

For Research Use Only

A Reliable Research Partner in Life Science and Medicine

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: www.elabscience.com Email: techsupport@elabscience.com