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Datasheet for ABIN7318620 IMPA1 Protein (His tag)

Overview

Quantity:	50 µg
Target:	IMPA1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IMPA1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human IMP1/IMPA1 Protein (His Tag)
Sequence:	Met 1-Asp277
Characteristics:	Recombinant Human Inositol Monophosphatase 1 is produced by our E.coli expression system and the target gene encoding Met1-Asp277 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:	IMPA1
Alternative Name:	IMP1/IMPA1 (IMPA1 Products)
Background:	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 myo-inositol-1,3-diphosphate,

Target Details

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 important role in intracellular signal transduction.

Synonym: Inositol Monophosphatase 1, IMP 1, IMPase 1, Inositol-1(or 4)-Monophosphatase 1, Lithium-Sensitive Myo-Inositol Monophosphatase A1, IMPA1, IMPA

Molecular Weight: 32.3 kDa

UniProt: [P29218](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Frozen, Liquid

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

Storage: -20 °C

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