

Recombinant Human IMPA2/IMPase 2 Protein (His Tag)

Catalog Number: PKSH032591

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

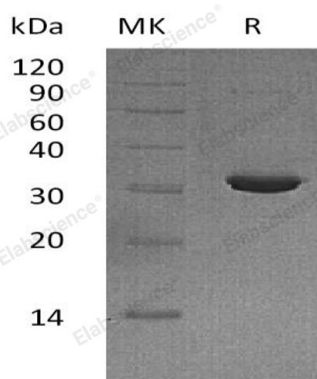
Description

Species	Human
Source	E.coli-derived Human IMPA2;IMPase 2 protein Met 1-Lys288, with an N-terminal His
Calculated MW	33.5 kDa
Observed MW	30 kDa
Accession	O14732
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
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 Tris-HCl, 2mM DTT, pH 8.0.

Data



> 95 % as determined by reducing SDS-PAGE.

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 with cofactor Magnesium and Inhibited by high Li⁺ and restricted Mg²⁺ 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.

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