Recombinant Protein Technical Manual

Recombinant Human IMPA2/IMPase 2 Protein (His Tag)

RPES1504

Product Data:

Product SKU: RPES1504

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: O14732

Protein Information:

Molecular Mass: 33.5 kDa

AP Molecular Mass: 30 kDa

Tag: N-6His

Bio-activity:

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

Endotoxin: < 1.0 EU per µg 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, 2mM DTT, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Inositol Monophosphatase 2; IMP 2; IMPase 2; Inositol(or 4)-Monophosphatase 2; Myo-Inositol Monophosphatase A2; IMPA2; IMP.18P

Immunogen Information:

Sequence: Met 1-Lys288

Background:

Inositol monophosphatase 2, also known as Inositol(or 4)-monophosphatase 2, Myo-inositol monophosphatase A2 and IMPA2, is an enzyme which belongs to the inositol monophosphatase family. IMPA2 catalyzes the dephosphoylration 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-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.