



Recombinant Protein Technical Manual

Recombinant Mouse IMPAD1/IMP3 Protein (His Tag)
RPES1513

Product Data:

Product SKU: RPES1513

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: Q80V26

Protein Information:

Molecular Mass: 34.3 kDa

AP Molecular Mass: 38 kDa

Tag: N-His

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. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, 10% Glycerol, pH 8.0.

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

Application:

Synonyms: Inositol monophosphatase 3; Impad1; IMPA3

Immunogen Information:

Sequence: Glu51-His356

Background:

IMPAD1 protein (IMPA3, gPAPP or IMPase 3) belongs to the inositol monophosphatase family. It is found in Purkinje cells, brain stem, lung and chondrocytes. Mouse IMPAD1 gene encodes a type II transmembrane Golgi-embedded glycoprotein with 356 amino acid residues which generates a 306 amino acid residues mature protein after processing. It is expressed in embryo, and in theory may catalyze myo-inositol monophosphate to myo-inositol. Free myo-inositol is used to generate inositol phospholipid, an essential component of intracellular signaling pathways that mobilize calcium. Mouse IMPAD1 exhibits 91% sequence identity with the human homologue.