

## 32-9013: Recombinant Mouse Inositol Monophosphatase 3/IMPAD1/IMP3/IMPA3 (N-6His)

**Gene :** Impad1  
**Gene ID :** 242291  
**Uniprot ID :** Q80V26

### Description

Source: Human Cells.  
MW :34.3kD.

Recombinant Mouse Inositol Monophosphatase 3 is produced by our Mammalian expression system and the target gene encoding Glu51-His356 is expressed with a 6His tag at the N-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 5mM HCl, 150mM NaCl.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** HHHHHHEVASDGGTVDLREMLAVAVLAAERGGDEVRRVRESNVLHEKSKGKTREGADDKMTSGDVLNRK  
MFYLLKTAFPNVQINTEEHVDASDKEVIVWNRKIPEDILKEIAAPKEVPAESVTWIDPLDATQEYTEDLRKYVTT  
MVCVAVNGKPVLGVIHKPFSEYTAWAMVDGGSNVKARSSYNEKTPKIIVSRSHAGMVKQVALQTFGNQTSIIPA  
GGAGYKVLALLDVPDMTQEKADLYIHVTYIKKWDICAGNAILKALGGHMTTLNGEEISYTGSDGIEGGLLASIRM  
NHQALVRKLPDLEKSGH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.