## Recombinant Mouse IMPAD1/IMP3 Protein (His Tag)

Catalog Number: PKSM041326



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

Description			
Synonyms	Inositol monophosphatase 3;Impad1;IMPA3		
Species	Mouse		
Expression Host	HEK293 Cells		
Sequence	Glu51-His356		
Accession	Q80V26		
Calculated Molecular Weight	34.3 kDa		
Observed molecular weight	38 kDa		
Tag	N-His		
Properties			
Purity	>95 % as determined by reducing SDS-PAGE.		
Endotoxin	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.		
Storage	Store at $< -20^{\circ}$ 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 $< -20^{\circ}$ C.		
Formulation	Supplied as a 0.2 $\mu$ m filtered solution of 50mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 7.5.		
Reconstitution	Not Applicable		
Data			

kDa	МК	R	_
120			
60	-		
40		-	
30	-		
20	-		
14	1000		

> 95 % as determined by reducing SDS-PAGE.

## 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.

## For Research Use Only

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