

Recombinant Mouse Ipmk Protein, Myc/DDK-tagged

Cat. No. Ipmk-3563M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length inositol polyphosphate multikinase (Ipmk), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Inositol phosphate kinase with a broad substrate specificity. Phosphorylates inositol 1, 4,5-trisphosphate (Ins(1,4,5)P ₃) first to inositol 1,3,4,5-tetrakisphosphate and then to inositol 1,3,4,5,6-pentakisphosphate (Ins(1,3,4,5,6)P ₅). Phosphorylates inositol 1,3,4,6-tetrakisphosphate (Ins(1,3,4,6)P ₄). Phosphorylates glycerol-3-phospho-1D-myo-inositol 4,5-bisphosphate to glycerol-3-phospho-1D-myo-inositol 3,4,5-trisphosphate. Plays an important role in MLKL-mediated necroptosis via its role in the biosynthesis of inositol pentakisphosphate (InsP ₅) and inositol hexakisphosphate (InsP ₆). Binding of these highly phosphorylated inositol phosphates to MLKL mediates the release of an N-terminal auto-inhibitory region, leading to activation of the kinase. Essential for activated phospho-MLKL to oligomerize and localize to the cell membrane during necroptosis. Required for normal embryonic development, probably via its role in the biosynthesis of inositol 1,3,4,5,6-pentakisphosphate (Ins(1,3,4,5,6)P ₅) and inositol hexakisphosphate (InsP ₆).
Molecular Mass	44.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ipmk inositol polyphosphate multikinase [Mus musculus (house mouse)]
Official Symbol	Ipmk
Synonyms	IPMK; inositol polyphosphate multikinase; inositol 1,3,4,6-tetrakisphosphate 5-kinase; Impk; AA408208; 2410017C19Rik
Gene ID	69718
mRNA Refseq	NM_027184
Protein Refseq	NP_081460
UniProt ID	Q7TT16

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