

## 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<sub>3</sub>) 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<sub>5</sub>). Phosphorylates inositol 1,3,4,6-tetrakisphosphate (Ins(1,3,4,6)P<sub>4</sub>). 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<sub>5</sub>) and inositol hexakisphosphate (InsP<sub>6</sub>). 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<sub>5</sub>) and inositol hexakisphosphate (InsP<sub>6</sub>).

**Molecular Mass** 44.5 kDa

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

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

## GENE INFORMATION

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

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