Recombinant Mouse Mink1 Protein, Myc/DDK-tagged

Cat. No. Mink1-4075M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length misshapen-like kinase 1 (zebrafish) (cDNA clone MGC:63403 IMAGE:6833893), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Serine/threonine kinase which acts as a negative regulator of Ras-related Rap2-mediated signal transduction to control neuronal structure and AMPA receptor trafficking. Required for normal synaptic density, dendrite complexity, as well as surface AMPA receptor expression in hippocampal neurons. Can activate the JNK and MAPK14/p38 pathways and mediates stimulation of the stress-activated protein kinase MAPK14/p38 MAPK downstream of the Raf/ERK pathway. Phosphorylates: TANC1 upon stimulation by RAP2A, MBP and SMAD1. Has an essential function in negative selection of thymocytes, perhaps by coupling NCK1 to activation of JNK1.
Molecular Mass	150.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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.

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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	Mink1 misshapen-like kinase 1 (zebrafish) [Mus musculus (house mouse)]
Official Symbol	Mink1
Synonyms	Mink1; misshapen-like kinase 1 (zebrafish); MI; B55; Ysk; MINK; Map4; Ysk2; Map4k6; misshapen-like kinase 1; GCK family kinase MiNK; MAPK/ERK kinase kinase kinase 6; MEK kinase kinase 6; MEKKK 6; Misshapen/NIKs-related kinase; Yeast Sps1/Ste20-related kinase 2; misshapen/NIK-related kinase; EC 2.7.11.1
Gene ID	50932
mRNA Refseq	NM_016713
Protein Refseq	NP_057922
UniProt ID	Q9JM52

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