

Recombinant Human Misshapen-Like Kinase 1 (zebrafish), GST-tagged

Cat. No. MINK1-5455H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanMINK1 catalytic domain (amino acids 1-320), GST-tagged. MINK1 is aserine/threonine kinase belonging to the germinal center kinase (GCK) family.No special measures were taken to activate this kinase.
Species	Human
Source	Insect Cells
ProteinLength	1-320 a.a.
Description	MINK1 is a member of thegerminal center family of kinases that are homologous to the Ste20 family andregulate a wide variety of cellular processes, including cell morphology,cytoskeletal rearrangement, and survival. Overexpression of kinase-deadmutants of MINK1 leads to enhanced cell spreading, actin stress fiberformation, adhesion to extracellular matrix and decreased cell motility andinvasion. MINK is activated after Ras induction via a mechanism involvingreactive oxygen species and mediates stimulation of p38 MAPK downstream ofthe Raf/ERK pathway.
Form	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.
Purity	≥ 90% asdetermined by SDS-PAGE analysis
Molecular Weight	63.9 kDa

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Specific Activity	250 nmole of phosphate transferred to myelin basic protein (MBP) per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 8.33 µg/ml.
storage	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	MINK1
Pathways	Insulin Signaling; MAPK signaling pathway
GENE INFORMATION	
Gene Name	MINK1 misshapen-like kinase 1 [Homo sapiens]
Synonyms	MINK1; misshapen-like kinase 1 (zebrafish); B55; ZC3; MINK; YSK2; hMINK; MAP4K6; MGC21111; hMINKbeta; GCK family kinase MINK; misshapen/NIK-related kinase; serine/threonine protein kinase; EC 2.7.11.1; MAPK/ERK kinase kinase kinase 6; MEK kinase kinase 6; MEKKK 6; Mitogen-activated protein kinase kinase kinase 6; misshapen-like kinase 1 (zebrafish)
Gene ID	50488
mRNA Refseq	NM_001024937
Protein Refseq	NP_001020108
MIM	609426
UniProt ID	Q8N4C8
Chromosome	17p13.2

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Location**Function**

ATP binding; nucleotidebinding; protein binding; protein serine/threonine kinase activity; smallGTPase regulator activity; transferase activity

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