Misshapen-Like Kinase 1 (MINK1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Misshapen-like kinase 1 (MINK1), Recombinant Protein
Full Product Name	Recombinant Human Misshapen-like kinase 1 (MINK1) , partial
Product Gene Name	MINK1 recombinant protein
Product Synonym Gene Name	MINK1
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	143,637 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	609426
3D Structure	ModBase 3D Structure for Q8N4C8
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MINK1 recombinant protein	This gene encodes a serine threonine kinase belonging to the germinal center kinase (GCK) family. The protein is structurally similar to the kinases that are related to NIK and may belong to a distinct subfamily of NIK-related kinases within the GCK family. Studies of the mouse homolog indicate an up-regulation of expression in the course of postnatal mouse cerebral development and activation of the cJun N-terminal kinase (JNK) and the p38 pathways. Alternative splicing occurs at this locus and four transcript variants encoding distinct isoforms have been identified.
Other Notes	Small volumes of MINK1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MINK1 purchase	MBS1418371 is a recombinant protein targeting MINK1. Also known as Recombinant Human Misshapen-like kinase 1 (MINK1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MINK1. It may not necessarily be applicable to this product.

NCBI GI #	68161546
NCBI GeneID	50488
NCBI Accession #	NP_001020108.1
UniProt Primary Accession #	Q8N4C8

UniProt Secondary Accession #	Q5U8Z0; Q9P1X1; Q9P2R8; D3DTK3; D3DTK4
UniProt Related Accession #	Q8N4C8
GenBank Nucleotide #	NM_001024937.3
NCBI Official Full Name	misshapen-like kinase 1 isoform 4
NCBI Official Synonym Full Names	misshapen like kinase 1
NCBI Official Symbol	MINK1
NCBI Official Synonym Symbols	B55; ZC3; MINK; YSK2; MAP4K6
UniProt Protein Name	Misshapen-like kinase 1
UniProt Synonym Protein Names	GCK family kinase MiNK; MAPK/ERK kinase kinase kinase 6; MEK kinase kinase 6; MEKKK 6; Misshapen/NIK-related kinase; Mitogen-activated protein kinase kinase kinase kinase 6
Protein Family	Misshapen-like kinase
UniProt Gene Name	MINK1
UniProt Synonym Gene Names	MEK kinase kinase 6; MEKKK 6
NCBI Protein Information	misshapen-like kinase 1
NCBI Summary for MINK1	This gene encodes a serine/threonine kinase belonging to the germinal center kinase (GCK) family. The protein is structurally similar to the kinases that are related to NIK and may belong to a distinct subfamily of NIK-related kinases within the GCK family. Studies of the mouse homolog indicate an up-regulation of expression in the course of postnatal mouse cerebral development and activation of the cJun N-terminal kinase (JNK) and the p38 pathways. [provided by RefSeq, Mar 2016]
UniProt Comments for MINK1	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.
Research Articles on MINK1	**1.** MINK plays a functional role in the IRES-mediated translation of EV71 viral RNA and may provide a potential target for the development of specific antiviral strategies against EV71 infection
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