Serine/Threonine-Protein Kinase Nek6 (NEK6) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Serine/threonine-protein kinase Nek6 (Nek6), Recombinant Protein
Full Product Name	Recombinant Mouse Serine/threonine-protein kinase Nek6 (Nek6)
Product Gene Name	Nek6 recombinant protein
Product Synonym Gene Name	Nek6
Sequence	MAGQPSHMPH GGSPNHLCHA LGPAPPPDPQ RLPNTLSFRC SLADFQIEKK IGRGQFSEVY KATCLLDRKT VALKKVQIFE MMDAKARQDC VKEIGLLKQL NHPNIIKYLD SFIEDNELNI VLELADAGDL SQMIKYFKKQ KRLIPERTVW KYFVQLCSAV EHMHSRRVMH RDIKPANVFI TATGIVKLGD LGLGRFFSSE TTAAHSLVGT PYYMSPERIH ENGYNFKSDI WSLGCLLYEM AALQSPFYGD KMNLFSLCQK IEQCDYPPLP GEHYSEKLRE LVSMCIYPDP DHRPDIVYVH QVARQMHVWT SST
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	35,742 Da
Sequence Positions	1-313, full length protein
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.
3D Structure	ModBase 3D Structure for Q9ES70
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Nek6 recombinant protein	MBS1429595 is a recombinant protein targeting Nek6. Also known as Recombinant Mouse Serine/threonine-protein kinase Nek6 (Nek6). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Nek6 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Nek6. It may not necessarily be applicable to this product.

NCBI GI #	227499829
NCBI GeneID	59126
NCBI Accession #	NP_001153103.1
UniProt Primary Accession #	Q9ES70
UniProt Secondary Accession #	Q3TCE9; Q8C6E6; Q9D0E2; Q9DBI8

UniProt Related Accession #	Q9ES70
GenBank Nucleotide #	NM_001159631.1
NCBI Official Full Name	serine/threonine-protein kinase Nek6
NCBI Official Synonym Full Names	NIMA (never in mitosis gene a)-related expressed kinase 6
NCBI Official Symbol	Nek6
NCBI Official Synonym Symbols	1300007C09Rik
UniProt Protein Name	Serine/threonine-protein kinase Nek6
UniProt Synonym Protein Names	Never in mitosis A-related kinase 6; NimA-related protein kinase 6
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	Nek6
UniProt Synonym Gene Names	NimA-related protein kinase 6
NCBI Protein Information	serine/threonine-protein kinase Nek6
UniProt Comments for Nek6	Protein kinase which plays an important role in mitotic cell cycle progression. Required for chromosome segregation at metaphase-anaphase transition, robust mitotic spindle formation and cytokinesis. Phosphorylates ATF4, CIR1, PTN, RAD26L, RBBP6, RPS7, TRIP4, RPS6KB1 and histones H1 and H3. Phosphorylates KIF11 to promote mitotic spindle formation. Involved in G2/M phase cell cycle arrest induced by DNA damage. Inhibition of activity results in apoptosis. May contribute to tumorigenesis by suppressing p53/TP53-induced cancer cell senescence (). Phosphorylates STAT3.
Research Articles on Nek6	**1.** NEK6 is overexpressed in various human cancer tissues, and ectopic expression of NEK6 increases tumor promoter-induced transformation of JB6 Cl41 mouse epidermal cells.
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