

Recombinant Human NEK6, His-tagged

Cat. No. NEK6-28258TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein: Human NEK6 fused to His-Tag at N-terminal end.
Species	Human
Description	The protein encoded by this gene is a kinase required for progression through the metaphase portion of mitosis. Inhibition of the encoded protein can lead to apoptosis. This protein also can enhance tumorigenesis by suppressing tumor cell senescence. Several transcript variants encoding a few different isoforms have been found for this gene.
Conjugation	HIS
Tissue specificity	Ubiquitous, with highest expression in heart and skeletal muscle.
Biological activity	Activity: 70 U/mg. One unit is defined as the amount of enzyme that will phosphorylate 1 nmol NEK6 substrate (FLAKSFGSPNRAYKK) per minute at pH 7.4 and 30C. Assay buffer: 50 mM HEPES, pH 7.4, 3 mM MgCl₂, 3 mM MnCl₂, 1 mM DTT, 3 uM Naorthovanadate, 0.1 mM
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8.0

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MAGQPGHMPH GGSSNNLCHT LGPVHPPDPQ RHPNTLSFRC SLADFQIEKK IGRGQFSEVYKATCLLDKRT VALKKVQIFE MMDAKARQDC VKEIGLLKQL NHPNIIKYLD SFIEDNELNIVLELADAGDL SQMIKYFKKQ KRLIPERTVW KYFVQLCSAV EHMHSRRVMH RDIKPANVFITATGVVKLGD LGLGRFFSSE TTAAHSLVGT PYYMSPERIH ENGYNFKSDI WSLGCLLYEMAALQSPFYGD KMNLFSLCQK IEQCDYPLP GEHYSEKLRE LVSMCICPDP HQRPDIGYVH QVAKQMHIWM SST
Sequence Similarities	Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase family. NIMA subfamily. Contains 1 protein kinase domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	NEK6 NIMA (never in mitosis gene a)-related kinase 6 [Homo sapiens]
Official Symbol	NEK6
Synonyms	NEK6; NIMA (never in mitosis gene a)-related kinase 6; serine/threonine-protein kinase Nek6; putative serine threonine protein kinase; SID6 1512;
Gene ID	10783
mRNA Refseq	NM_001145001
Protein Refseq	NP_001138473
MIM	604884

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Uniprot ID	Q9HC98
Chromosome Location	9q33.3-q34.11
Function	ATP binding; kinesin binding; magnesium ion binding; nucleotide binding; protein binding;

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