

## Recombinant Human NEK7, GST-tagged, Active

Cat. No. NEK7-371H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human NEK7 was expressed by <i>baculovirus in Sf9 insect cell</i> using an N-terminal GST tag. MW=63 kDa.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	NEK7 is a member of the NIMA family of serine/threonine kinases. In contrast to the other documented NIMA-related kinases, NEK7 harbor its catalytic domain in the C-terminus of the protein. Immunofluorescence studies suggest that NEK7 is cytoplasmic and located on chromosome 1. The major protein kinase that is active on the p70 S6 kinase hydrophobic regulatory site (FXXFS/TF/Y) Thr412, was purified from rat liver and identified as NEK7. NEK7 kinase activity is rapidly and efficiently increased by serum deprivation, and may be regulated in a cell cycle-dependent manner.
<b>Sequence</b>	Full-length.
<b>Applications</b>	Kinase Assay, Western Blot.
<b>Storage And Stability</b>	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

### GENE INFORMATION

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<b>Gene Name</b>	NEK7 NIMA (never in mitosis gene a)-related kinase 7 [ Homo sapiens ]
<b>Synonyms</b>	NEK7; NIMA (never in mitosis gene a)-related kinase 7; NIMA-related kinase 7; EC 2.7.11.1
<b>Gene ID</b>	140609
<b>mRNA Refseq</b>	NM_133494
<b>Protein Refseq</b>	NP_598001
<b>MIM</b>	606848
<b>UniProt ID</b>	Q8TDX7
<b>Chromosome Location</b>	1q31.3
<b>Function</b>	ATP binding; magnesium ion binding; nucleotide binding; protein phosphatase binding; protein serine/threonine kinase activity; transferase activity; protein serine/threonine kinase activity

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