

Recombinant Human NEK6, His-tagged

Cat. No. NEK6-559H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NEK6 was expressed by <i>baculovirus in Sf9 insect cells</i> using an N-terminal His tag. MW=40.1kDa.
Species	Human
Source	Sf9 Cells
Description	NEK6 is a serine/threonine kinase that is a member of the Nek family of protein kinases that share an amino-terminal catalytic domain related to NIMA family. Nek6 is a nuclear and cytoplasmic kinase that is required for mitotic progression of human cells. Nek6 is phosphorylated and activated during M phase of the cell cycle. Inhibition of Nek6 function by either overexpression of an inactive Nek6 mutant or elimination of endogenous Nek6 by siRNA arrests cells in M phase and triggers apoptosis.
Purity	>90 % by SDS-Page.
Specific 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 30°C. Assay buffer: 50 mM HEPES, pH 7.4, 3 mM MgCl ₂ , 3 mM MnCl ₂ , 1 mM DTT, 3 uM Naorthovanadate, 0.1 mM ATP, 4 uM NEK6 substrate, and 0.4 ug/ml NEK6.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 50% glycerol, and 1 mM

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DTT.

Stability >6 months at –80°C.

GENE INFORMATION

Gene Name NEK6 NIMA (never in mitosis gene a)-related kinase 6 [Homo sapiens]

Synonyms NEK6; NIMA (never in mitosis gene a)-related kinase 6; SID6-1512; NIMA-related kinase 6; OTTHUMP00000022097; putative serine-threonine protein kinase; EC 2.7.11.1

Gene ID 10783

mRNA Refseq NM_001145001

Protein Refseq NP_001138473

MIM 604043

UniProt ID P51955

Chromosome Location 9q33.3-q34.11

Function ATP binding; magnesium ion binding; nucleotide binding; protein phosphatase binding; protein serine/threonine kinase activity; transferase activity; protein serine/threonine kinase activity; signal transducer activity

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