

Active Recombinant Mouse NEK1, GST-tagged

Cat. No. NEK1-1437M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse NEK1 (1-495) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Mouse
Source	Sf9 Cells
ProteinLength	1-495 aa
Description	NEK1 or NIMA (never in mitosis gene a)-related kinase 1 is a serine/threonine kinase involved in cell cycle regulation and is found in a centrosomal complex with FEZ1, a neuronal protein that plays a role in axonal development. NEK1 is involved early in the DNA damage response pathway. NEK1 cycles through the nucleus via its nuclear localization and export signals. NEK1 protein participates in different signaling pathways to regulate diverse cellular processes and plays an important role in the kidney where it has opened a new avenue for studying cystogenesis and identifying possible modes of therapy.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	70 nmol/min/mg
Molecular Mass	~85 kDa

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Purity	>70%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	Nek1 NIMA (never in mitosis gene a)-related expressed kinase 1 [Mus musculus]
Official Symbol	NEK1
Synonyms	NEK1; NIMA (never in mitosis gene a)-related expressed kinase 1; serine/threonine-protein kinase Nek1; NY-REN-55 antigen; NIMA-related kinase 1; kidney, anemia and testis; nimA-related protein kinase 1; never in mitosis A-related kinase 1; Nek1 serine/threonine- and tyrosine-specific protein kinase; kat; D8Ertd790e; MGC189817;
Gene ID	18004
mRNA Refseq	NM_175089
Protein Refseq	NP_780298
Function	ATP binding; kinase activity; metal ion binding; nucleotide binding; protein kinase activity; protein serine/threonine kinase activity; protein tyrosine kinase activity; transferase activity; transferase activity, transferring phosphorus-containing groups;

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