

Recombinant Mouse Nek1 Protein, GST-tagged

Cat. No. Nek1-2039M **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	Insect Cells
ProteinLength	1-495
Description	Phosphorylates serines and threonines, but also appears to possess tyrosine kinase activity. Involved in DNA damage checkpoint control and for proper DNA damage repair. In response to injury that includes DNA damage, NEK1 phosphorylates VDAC1 to limit mitochondrial cell death. May be implicated in the control of meiosis. Involved in cilium assembly.
Molecular Mass	86 kDa
Purity	> 70%
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at -70 centigrade. 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

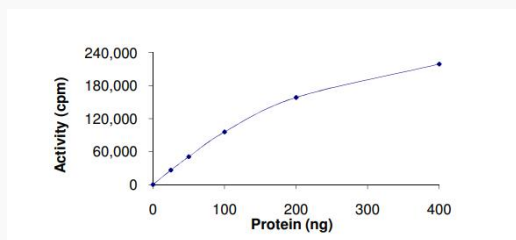
Concentration	0.05 µg/µL
Storage Buffer	50mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
GENE INFORMATION	
Gene Name	Nek1 NIMA (never in mitosis gene a)-related expressed kinase 1 [Mus musculus (house mouse)]
Official Symbol	Nek1
Synonyms	Nek1; NIMA (never in mitosis gene a)-related expressed kinase 1; ka; kat; D8Ertd790; D8Ertd790e; serine/threonine-protein kinase Nek1; NIMA-related kinase 1; NY-REN-55 antigen; Nek1 serine/threonine- and tyrosine-specific protein kinase; kidney, anemia and testis; never in mitosis A-related kinase 1; nimA-related protein kinase 1; EC 2.7.11.1
Gene ID	18004
mRNA Refseq	NM_175089
Protein Refseq	NP_780298
UniProt ID	P51954

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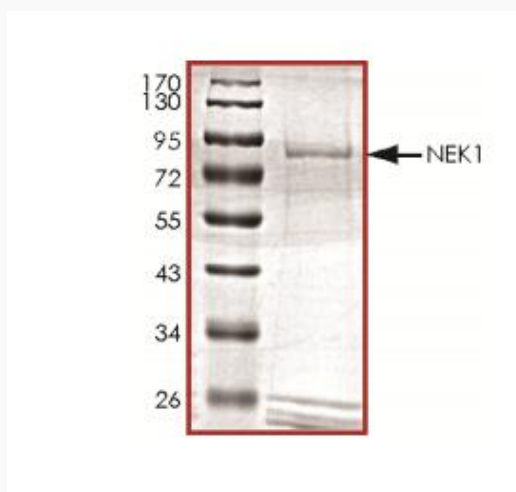
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Specific Activity



The specific activity of NEK1 was determined to be 70 nmol/min/mg as per activity assay protocol.

Purity



The purity of NEK1 was determined to be >70% by densitometry.