

## Recombinant Mouse Nek1 Protein, GST-tagged

**Cat. No.** Nek1-2039M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant mouse NEK1 (1-495) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 1-495                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 86 kDa                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>           | > 70%                                                                                                                                                                                                                                                                                                                                                           |
| <b>Stability</b>        | One year at -70 centigrade from date of shipment.                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>          | 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.                                                                                                                |

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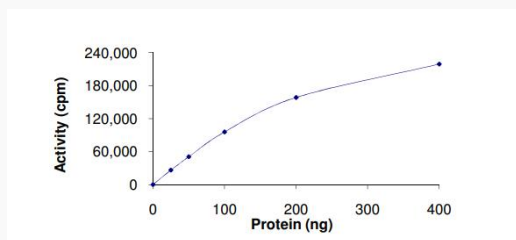
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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Concentration</b>    | 0.05 µg/µL                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage Buffer</b>   | 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.                                                                                                                                                                                                                                              |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                          |
| <b>Gene Name</b>        | Nek1 NIMA (never in mitosis gene a)-related expressed kinase 1 [ Mus musculus (house mouse) ]                                                                                                                                                                                                                                                            |
| <b>Official Symbol</b>  | Nek1                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>         | 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 |
| <b>Gene ID</b>          | 18004                                                                                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>      | NM_175089                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>   | NP_780298                                                                                                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>       | P51954                                                                                                                                                                                                                                                                                                                                                   |

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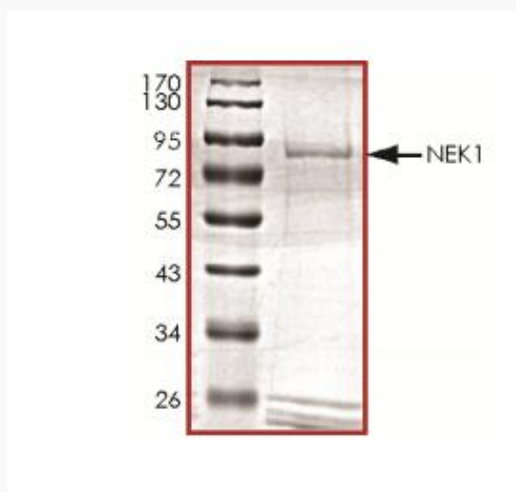
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### Specific Activity



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.