

## Active Recombinant Human NEK1 Protein, GST-tagged

**Cat. No.** NEK1-2993H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human protein, catalytic domain (amino acids 1-505), GST-tagged, expressed in insect cells.                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 1-505                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | The protein encoded by this gene is a serine/threonine kinase involved in cell cycle regulation. The encoded protein is found in a centrosomal complex with FEZ1, a neuronal protein that plays a role in axonal development. Defects in this gene are a cause of polycystic kidney disease (PKD). Several transcript variants encoding different isoforms have been found for this gene. |
| <b>Bio-activity</b>     | 590 nmoles of phosphate transferred to myelin basic protein (MBP) per minute per mg of total protein at 30 centigrade. Activity determined at a final protein concentration of 1.67 µg/mL.                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 85.3 kDa                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | 85% as determined by a Coomassie® blue stained SDS-PAGE gel.                                                                                                                                                                                                                                                                                                                              |
| <b>Storage</b>          | Store at -80 centigrade. At first use, aliquot and store at -80 centigrade to avoid multiple freeze-thaws.                                                                                                                                                                                                                                                                                |

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|                       |                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------|
| <b>Concentration</b>  | 0.34 mg/mL total protein as measured using the Bradford protein assay with BSA as a standard.  |
| <b>Storage Buffer</b> | 50 mM Tris (pH 7.5), 150 mM NaCl, 0.5 mM EDTA, 0.02% Triton® X-100, 2 mM DTT and 50% Glycerol. |
| <b>Shipping</b>       | Dry Ice                                                                                        |

## GENE INFORMATION

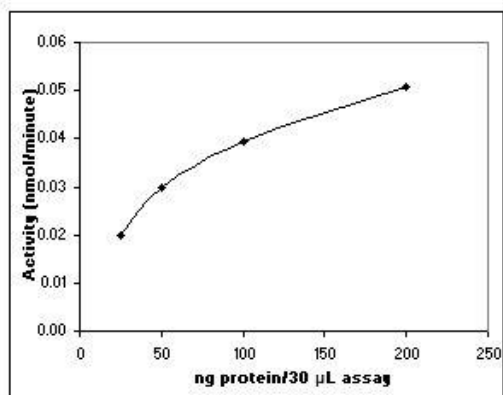
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|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | NEK1 NIMA related kinase 1 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                             |
| <b>Official Symbol</b> | NEK1                                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>        | NEK1; NIMA related kinase 1; ALS24; SRPS2; SRTD6; SRPS2A; NY-REN-55; serine/threonine-protein kinase Nek1; NIMA (never in mitosis gene a)-related kinase 1; never in mitosis A-related kinase 1; nimA-related protein kinase 1; protein-serine/threonine kinase; renal carcinoma antigen NY-REN-55; EC 2.7.11.1 |
| <b>Gene ID</b>         | 4750                                                                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | NM_012224                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>  | NP_036356                                                                                                                                                                                                                                                                                                       |
| <b>MIM</b>             | 604588                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID</b>      | Q96PY6                                                                                                                                                                                                                                                                                                          |

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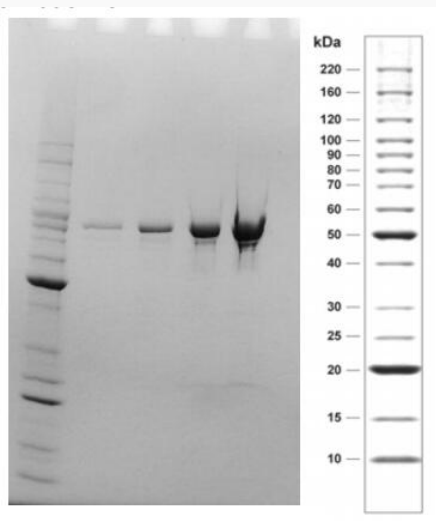
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### Activity Graph



### Gel Information for NEK1



Page Description: The SDS- PAGE and/or Native PAGE were run on 4-20% Tris-Glycine Novex® gels.

Lane 1: Invitrogen™ BenchMark™ Protein Ladder.

Lane 2: 1 µg NEK1

Lane 3: 2 µg NEK1

Lane 4: 5 µg NEK1

Lane 5: 10 µg NEK1

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