

## Active Recombinant Human NEK1 Protein, GST-tagged

**Cat. No.** NEK1-9928H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human NEK1 (1-477) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 1-477                                                                                                                                                                                                                                                                                                                                                                                     |
| <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>     | 11 nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 85 kDa                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>           | > 85%                                                                                                                                                                                                                                                                                                                                                                                     |
| <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                                                                                                                                                                                                                          |

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favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

**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 related kinase 1 [ Homo sapiens (human) ]

**Official Symbol** NEK1

**Synonyms** 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

**Gene ID** 4750

**mRNA Refseq** NM\_012224

**Protein Refseq** NP\_036356

**MIM** 604588

**UniProt ID** Q96PY6

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