

Active Recombinant Human NEK1 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant human protein, catalytic domain (amino acids 1-505), GST-tagged, expressed in insect cells.
Species	Human
Source	Insect Cells
ProteinLength	1-505
Description	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.
Bio-activity	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.
Molecular Mass	85.3 kDa
Purity	85% as determined by a Coomassie® blue stained SDS-PAGE gel.
Storage	Store at -80 centigrade. At first use, aliquot and store at -80 centigrade to avoid multiple freeze-thaws.

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

GENE INFORMATION

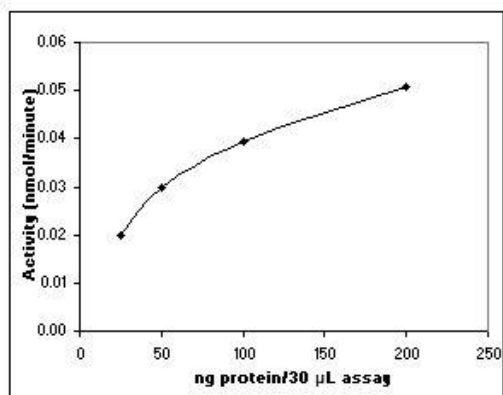
Gene Name	NEK1 NIMA related kinase 1 [Homo sapiens (human)]
Official Symbol	NEK1
Synonyms	NEK1; NIMA related kinase 1; ALS24; SRPS2; SRTD6; SRPS2A; NY-REN-55; serine/threonine-protein kinase Nek1; NIMA (never in mitosis gene a)-related kinase 1; never in mitosis A-related kinase 1; nimA-related protein 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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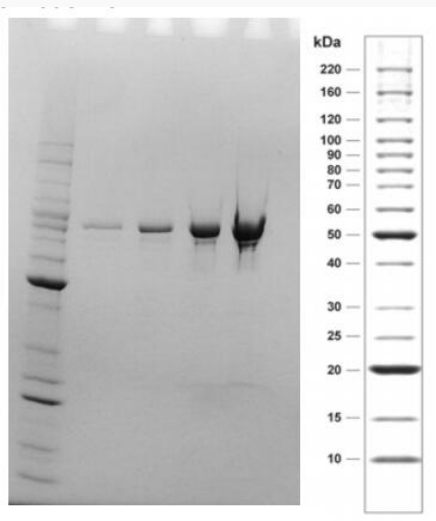
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Activity Graph



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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