NEK1 recombinant protein

NEK1, Active

CATALOG #	HOST	APPLICATIONS
AAA73740	**Sf9 insect cells**	**Western Blot**

PRODUCT SYNONYMS

NEK1; Active; D8Ertd790e; kat; MGC189817; NEK1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for NEK1 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Mouse
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. 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.

IMAGES

SDS-PAGE
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.

Activity
Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for NEK1 recombinant protein	Recombinant mouse NEK1 (1-495) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_175089. NEK1 or NIMA (never in mitosis gene a)-related kinase 1 is a serine/threonine kinase involved in cell cycle regulation and is found in a centrosomal complex with FEZ1, a neuronal protein that plays a role in axonal development. NEK1 is involved early in the DNA damage response pathway (1). NEK1 cycles through the nucleus via its nuclear localization and export signals (2). NEK1 protein participates in different signaling pathways to regulate diverse cellular processes and plays an important role in the kidney where it has opened a new avenue for studying cystogenesis and identifying possible modes of therapy.
Product Categories/Family for NEK1 recombinant protein	Protein Kinases; Cancer; Cell Cycle; Ser/Thr Kinases
References	1. Polci, R. et.al: NIMA-related protein kinase 1 is involved early in the ionizing radiation-induced DNA damage response. Cancer Res. 64: 8800-8803, 2004. 2. Hilton, L. K. et.al: The NIMA-related kinase NEK1 cycles through the nucleus. Biochem. Biophys. Res. Commun. 389: 52-56, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_175089
Molecular Weight	~85kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/nek1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73740