

Product: NEK7, active
Catalog #: 02-2026
Amount: 5 µg

DESCRIPTION:

NEK7 is a member of the NIMA family of serine/threonine kinases. In contrast to the other documented NIMA-related kinases, NEK7 harbor its catalytic domain in the C-terminus of the protein. Immunofluorescence studies suggest that NEK7 is cytoplasmic and located on chromosome 1 (1). The major protein kinase that is active on the p70 S6 kinase hydrophobic regulatory site (FXXFS/TF/Y) Thr412, was purified from rat liver and identified as NEK7 (2). NEK7 kinase activity is rapidly and efficiently increased by serum deprivation, and may be regulated in a cell cycle-dependent manner

The gene accession number is [NM 133494](#)

Gene Aliases: none

SOURCE:

Recombinant full-length human NEK7 was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag

MOLECULAR WEIGHT:

63 kDa

PURITY:

> 90% (by densitometry)

FORM:

Purified, in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol

CONCENTRATION:

0.1 mg/ml

SPECIFIC ACTIVITY:

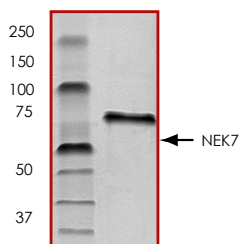
221 nmol/mim/mg

STORAGE:

-70°C (aliquot). AVOID repeated Freeze/thaw cycles

REFERENCE:

1. Kandli, M. et al: *Isolation and characterization of two evolutionarily conserved murine kinases (Nek6 and nek7) related to the fungal mitotic regulator, NIMA*. Genomics. 2000 Sep 1;68(2):187-96
2. Belham, C. et al: *Identification of the NIMA family kinases NEK6/7 as regulators of the p70 ribosomal S6 kinase*. Curr Biol. 2001 Aug 7;11(15):1155-67



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