

Recombinant Human NEK3

Cat. No. NEK3-29620TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human NEK3 with N-terminal proprietary tag expressed in a Baculovirus infected Sf9 cell expression system; amino acids 1-506, 86kDa.
Species	Human
ProteinLength	1-506 a.a.
Description	This gene encodes a member of the NimA (never in mitosis A) family of serine/threonine protein kinases. The encoded protein differs from other NimA family members in that it is not cell cycle regulated and is found primarily in the cytoplasm. The kinase is activated by prolactin stimulation, leading to phosphorylation of VAV2 guanine nucleotide exchange factor, paxillin, and activation of the RAC1 GTPase. Multiple transcript variants encoding different isoforms have been found for this gene.
Biological activity	The Specific activity of NEK3-29620TH was determined to be 132 nmol/min/mg.
Form	Liquid
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence	Belongs to the protein kinase superfamily. NEK Ser/Thr protein kinase family. NIMA

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Similarities	subfamily.Contains 1 protein kinase domain.
Full Length	Full L.
GENE INFORMATION	
Gene Name	NEK3 NIMA (never in mitosis gene a)-related kinase 3 [Homo sapiens]
Official Symbol	NEK3
Synonyms	NEK3; NIMA (never in mitosis gene a)-related kinase 3; serine/threonine-protein kinase Nek3; glycogen synthase A kinase; HSPK36; hydroxyalkyl protein kinase; MGC29949; phosphorylase B kinase kinase; serine/threonine protein kinase NEK3;
Gene ID	4752
mRNA Refseq	NM_001146099
Protein Refseq	NP_001139571
MIM	604044
Uniprot ID	P51956
Chromosome Location	13q14.2-q21.1
Function	ATP binding; ATP binding; metal ion binding; nucleotide binding; protein binding;

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