

Recombinant Human NEK2, Active

Cat. No. NEK2-663H Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	E.coli
Description	SGK2 is a member of the serum- and glucocorticoid-induced kinases (SGK) which are serine-threonine kinases and belong to the "AGC" kinase subfamily, which includes protein kinases A, G, and C, and its catalytic domain is most similar to protein kinase B (PKB). SGK2, like the other two isoforms SGK1 and SGK3, is stimulated by insulin and insulin-like growth factor-1 (IGF-1), and has been shown to enhance Na(+)/K(+)-ATPase activity in a variety of cells.
Application	Kinase activity is measured as the molar amount of phosphate incorporated into myelin basic protein, per minute per mg protein at 30 °C using a final concentration of 50 μM [32P] ATP.
Biochem/physiol Actions	Nek2 (nimA-related kinase 2) is a cell cycle-regulated protein kinase with maximal activity at the onset of mitosis that localizes to the centrosome.
Physical Form	Solution in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, and 30% glycerol.
Assay	≥85% (SDS-PAGE).
Form	buffered aqueous glycerol solution.

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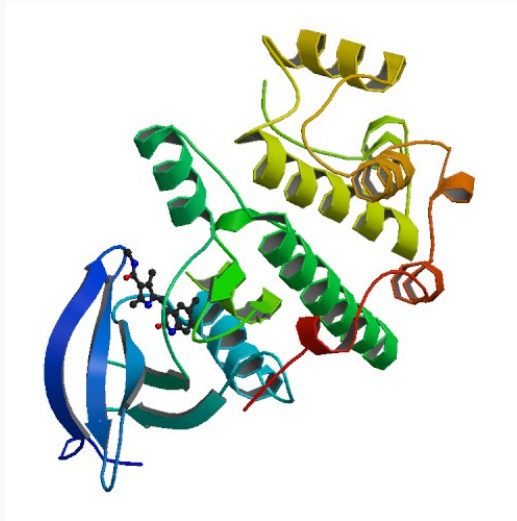
Mol Wt	protein apparent mol wt ~80 kDa.
Storage Temp	-70°C.
GENE INFORMATION	
Gene Name	NEK2 NIMA (never in mitosis gene a)-related kinase 2 [Homo sapiens]
Synonyms	NEK2; NIMA (never in mitosis gene a)-related kinase 2; NLK1; NEK2A; HsPK21; NIMA-related kinase 2; EC 2.7.11.1; serine/threonine-protein kinase Nek2; nimA-like protein kinase 1; nimA-related protein kinase 2; never in mitosis A-related kinase 2
Gene ID	4751
mRNA Refseq	NM_002497
Protein Refseq	NP_002488
MIM	604043
UniProt ID	P51955
Chromosome Location	1q32.2-q41
Pathway	Cell Cycle, Mitotic
Function	ATP binding; magnesium ion binding; transferase activity; nucleotide binding; protein phosphatase binding; protein serine/threonine kinase activity

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