

Recombinant Human NEK11 (N-GST tag)

Cat No:HR2R1781

For research use only

Overview

Quantity Cono Symbol	10 ?g NEK11
Gene Symbol	NEXT
Gene ID	N/A
Accession	NM_024800
Alternative Name	FLJ23495
Species	Human
Source	Insect cells
Description	?NEK11 is a member of the NEK family and the protein localizes to the nucleoli where it may function with NEK2A in the S-phase checkpoint. NEK2 phosphorylates NEK11 in its C-terminal autoinhibitory domain and elevates NEK11 kinase activity by dissociating the autoinhibitory domain from the N-terminal catalytic domain . NEK11 protein appears to play a role in DNA replication and response to genotoxic stress. NEK11 activity is activated in HeLa cells treated with various DNA-damaging agents and replication inhibitors. Activation of NEK11 by genotoxic agents is suppressed by inhibitor of ATR/ATM-mediated signalling indicating that NEK11 has a role in S-phase checkpoint downstream of ATR/ATM signalling .
Functions	The specific activity of NEK11 was determined to be 25nmol /min/mg as per activity assay protocol.
Formulation	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	110
Purity	70% - 90%
Concentration	
Shipping Condition	Dry Ice
Storage Condition	Store product at ?70?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.