# Recombinant Human NEK11 (N-GST tag)

**Cat No:HR2R1781**

For research use only

## Overview

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|---|---|
| Quantity | 10 ?g |
| Gene Symbol | NEK11 |
| 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. |