

Catalog No.: RP03441LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	10783	O9HC98

Tags
N-GST

NEK6; Protein kinase SID6-1512; Never in mitosis A-related kinase 6; NimA-related protein kinase 6; Serine/threonine-protein kinase Nek6

Source	Purification
Baculovirus-Insect Cells	≥ 85% as determined by SDS-PAGE; ≥ 85% as determined by HPLC.

Calculated MW	Observed MW
62.2 kDa	50-60 kDa

< 1 EU/μg of the protein by LAL method.

Supplied as a 0.22 μ m filtered solution in 50 mM Tris-HCl, 500 mM NaCl, 5% glycerol, 1 mM DTT, 0.1 M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

Please use running water to thaw it quickly.

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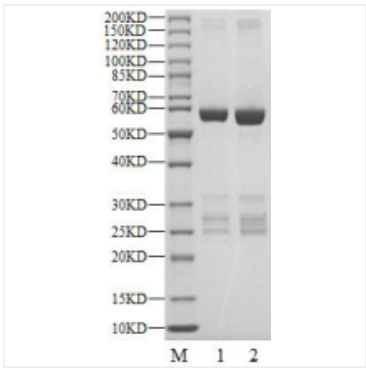
Serine/threonine-protein kinase Nek6 is an enzyme that in humans is encoded by the NEK6 gene. NEK6 plays an important role in mitotic cell cycle progression. Required for chromosome segregation at metaphase-anaphase transition, robust mitotic spindle formation and cytokinesis. Phosphorylates ATF4, CIR1, PTN, RAD26L, RBBP6, RPS7, RPS6KB1, TRIP4, STAT3 and histones H1 and H3. Phosphorylates KIF11 to promote mitotic spindle formation. Involved in G2/M phase cell cycle arrest induced by DNA damage. Inhibition of activity results in apoptosis. May contribute to tumorigenesis by suppressing p53/TP53-induced cancer cell senescence.

Recombinant Human NEK6 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ala2-Thr313) of Human NEK6 (Accession #Q9HC98) fused with a N-GST tag.

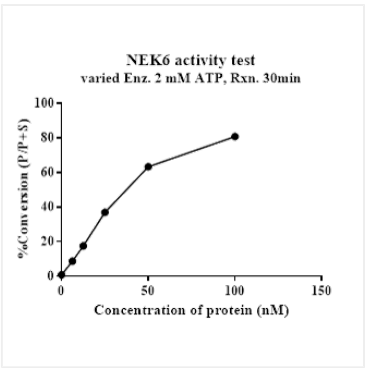
The activity of NEK6 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10 μ L are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.



Recombinant Human NEK6 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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