Recombinant NEK6 protein (His tag)

Catalog Number	548296
Synonyms	Never in mitosis A-related kinase 6; NimA-related protein kinase 6; Protein kinase SID6-1512
Species	Human
Expression System	E. coli
Accession	Q9HC98
Molecular Weight	Predictes a molecular mass of 33.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	39-313
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 39-313 aa (Q9HC98) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Serine/threonine-protein kinase Nek6 (NEK6) fragment (amino acids 39-313) is a high-purity protein encompassing the complete kinase domain. This product is an essential tool for studying mitotic regulation, spindle dynamics, and cell cycle progression, offering researchers a functional fragment ideal for kinase assays, interaction studies, and mechanistic investigations in cancer and cell biology research. Serine/threonine-protein kinase Nek6 is a crucial regulator of mitotic cell cycle progression in humans, playing key roles in chromosome segregation, spindle formation, and cytokinesis. The kinase phosphorylates multiple substrates including KIF11 for spindle assembly, EML4 for chromosome congression, and histones H1 and H3. Located in the cytoplasm, nucleus, centrosome, and spindle apparatus, Nek6 localizes to specific structures throughout mitosis. It contributes to DNA damage response and may suppress p53-mediated senescence, implicating it in tumorigenesis. The provided fragment contains the complete protein kinase domain, enabling focused study of its catalytic functions and regulatory mechanisms.