

Datasheet for ABIN7554712
NEK6 Protein (AA 1-313) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	NEK6
Protein Characteristics:	AA 1-313
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NEK6 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant NEK6 Protein expressed in mammalian cells.
Sequence:	MAGQPGHMPH GGSSNNLCHT LGPVHPPDPQ RHPNTLSFRC SLADFQIEKK IGRGQFSEVY KATCLLDRKT VALKKVQIFE MMDAKARQDC VKEIGLLKQL NHPNIIKYLD SFIEDNELNI VLELADAGDL SQMIKYFKKQ KRLIPERTVW KYFVQLCSAV EHMHSRRVMH RDIKPANVFI TATGVVKLGD LGLGRFFSSE TTAHSLVGT PYYMSPERIH ENGYNFKSDI WSLGCLLYEM AALQSPFYGD KMNLFSLCQK IEQCDYPLP GEHYSEKLRE LVSMCICPDP HQRPDIGYVH QVAKQMHIWM SST Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
---------	---

Grade:	custom-made
--------	-------------

Target Details

Target:	NEK6
---------	------

Alternative Name:	NEK6 (NEK6 Products)
-------------------	--

Background:	<p>Serine/threonine-protein kinase Nek6 (EC 2.7.11.34) (Never in mitosis A-related kinase 6) (NimA-related protein kinase 6) (Protein kinase SID6-1512),FUNCTION: Protein kinase which plays an important role in mitotic cell cycle progression (PubMed:11516946, PubMed:14563848). Required for chromosome segregation at metaphase-anaphase transition, robust mitotic spindle formation and cytokinesis (PubMed:19414596). Phosphorylates ATF4, CIR1, PTN, RAD26L, RBBP6, RPS7, RPS6KB1, TRIP4, STAT3 and histones H1 and H3 (PubMed:12054534, PubMed:20873783). Phosphorylates KIF11 to promote mitotic spindle formation (PubMed:19001501). Involved in G2/M phase cell cycle arrest induced by DNA damage (PubMed:18728393). Inhibition of activity results in apoptosis. May contribute to tumorigenesis by suppressing p53/TP53-induced cancer cell senescence (PubMed:21099361). Phosphorylates EML4 at 'Ser-144', promoting its dissociation from microtubules during mitosis which is required for efficient chromosome congression (PubMed:31409757).</p> <p>{ECO:0000269 PubMed:11516946, ECO:0000269 PubMed:12054534, ECO:0000269 PubMed:14563848, ECO:0000269 PubMed:18728393,</p>
-------------	--

Target Details

ECO:0000269|PubMed:19001501, ECO:0000269|PubMed:19414596,
ECO:0000269|PubMed:20873783, ECO:0000269|PubMed:21099361,
ECO:0000269|PubMed:31409757}.

Molecular Weight: 35.7 kDa

UniProt: [Q9HC98](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months