

Datasheet for ABIN7554702
NEK1 Protein (AA 1-1258) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	NEK1
Protein Characteristics:	AA 1-1258
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NEK1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant NEK1 Protein expressed in mammalian cells.
Sequence:	MEKYVRLQKI GEGSFGKAIL VKSTEDGRQY VIKEINISRM SSKEREESRR EVAVLANMKH PNIVQYRESF EENGSLYIVM DYCEGGDLFK RINAQKGVLF QEDQILDWFV QICLALKHVH DRKILHRDIK SQNIFLTKDG TVQLGDFGIA RVLNSTVELA RTCIGTPYYL SPEICENKPY NNKSDIWALG CVLYELCTLK HAFEAGSMKN LVLKIISGSF PPVSLHYSYD LRSLVSQLFK RNPRDRPSVN SILEKGFIAK RIEKFLSPQL IAEEFCLKTF SKFGSQPIPA KRPASGQNSI SVMPAQKITK PAAKYGIPLA YKKGDKKLH EKKPLQKHKQ AHQTPEKRVN TGEERRKISE EAARKRRLEF IEKEKKQKDQ IISLMKAEQM KRQEKERLER INRAREQGWR NVLSAGGSGE VKAPFLGSGG TIAPSSFSSR GQYEHYHAIF DQMQQRAED NEAKWKREIY GRGLPERGIL PGVRPGFPYG AAGHHHFPDA DDIRKTLKRL KAVSKQANAN RQKQGLAVER AKQVEEFQQR KREAMQNKAR AEGHMYLAR LRQIRLQNFN ERQQIKAKLR GEKKEANHSE GQEGSEEADM RRKKIESLKA HANARAVALK EQLERKRKEA YEREKKVWEE HLVAKGVKSS DVSPPLGQHE TGGSPSKQQM RSVISVTSAL KEVGVDSSTL DTRETSEEMQ KTNNAISSKR EILRRLNENL

Product Details

KAQEDEKGGKQ NLSDTFEINV HEDAKEHEKE KSVSSDRKKW EAGGQLVIPL DELTLDTSFS
TTERHTVGEV IKLGPNNGSPR RAWGKSPTDS VLKILGEAEL QLQTELLT TIRSEISPEG
EKYKPLITGE KKVQCISHEI NPSAIVDSPV ETKSPEFSEA SPQMSLKLEG NLEEDDLET
EILQEPSGTN KDESLPCTIT DVWISEEKET KETQSADRIT IQENEVSEDG VSSTVDQLSD
IHIEPGTNDQ QHSKCDVDKS VQPEPFFHKV VHSEHLNLVP QVQSVQCSPE ESFAFRSHSH
LPPKNKNKNS LLIGLSTGLF DANNPKMLRT CSLPDLKLF RTLM DVPTVG DVRQDNLEID
EIEDENIKEG PSDSEDIVFE ETDLDLQELQ ASMEQLLREQ PGEEYSEEEE SVLKNDSVEP
TANGTDVADE DDNPSSSAL NEEWHSDNSD GEIASECECD SVFNHLEELR LHLEQEMGFE
KFFEVEYKIK AIHEDEDENI EICSKIVQNI LGNEHQHLYA KILHLVMADG AYQEDNDE **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:

- 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: NEK1

Target Details

Alternative Name:	NEK1 (NEK1 Products)
Background:	Serine/threonine-protein kinase Nek1 (EC 2.7.11.1) (Never in mitosis A-related kinase 1) (NimA-related protein kinase 1) (Renal carcinoma antigen NY-REN-55),FUNCTION: Phosphorylates serines and threonines, but also appears to possess tyrosine kinase activity (PubMed:20230784). Involved in DNA damage checkpoint control and for proper DNA damage repair (PubMed:20230784). In response to injury that includes DNA damage, NEK1 phosphorylates VDAC1 to limit mitochondrial cell death (PubMed:20230784). May be implicated in the control of meiosis (By similarity). Involved in cilium assembly (PubMed:21211617). {ECO:0000250 UniProtKB:P51954, ECO:0000269 PubMed:20230784, ECO:0000269 PubMed:21211617}.
Molecular Weight:	142.8 kDa
UniProt:	Q96PY6

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