

Datasheet for ABIN7563410
NEK1 Protein (AA 1-1203) (His tag)



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Overview

Quantity:	1 mg
Target:	NEK1
Protein Characteristics:	AA 1-1203
Origin:	Mouse
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 GEGSFGKAVL VKSTEDGRHY VIK EINISRM SDKERQESRR EVAVLANMKH PNIVQYKESF EENGSLYIVM DYCEGGDLFK RINAQKGALF QEDQILDWFV QICLALKHVV DRKILHRDIK SQNIFLTKDG TVQLGDFGIA RVLNSTVELA RTCIGTPYYL SPEICENKPY NNKSDIWALG CVLYELCTLK HAFEAGNMKN LVLKIISGSF PVPSPHYSYD LRSLLSQLFK RNPRDRPSVN SILEKGFIAK RIEKFLSPQL IAEEFCLKTL SKFGPQPLPG KRPASGQGVS SFVPAQKITK PAAKYGVPLT YKKGDKKLL EKKPPPCHKQ AHQIPVKKMN SGEERKKMSE EAAKKRRLEF IEKEKKQKDQ IRFLKAEQMK RQEQRLERI NRAREQGWRN VLRAGGSGEV KASFFGIGGA VSPSPCSPRG QYEHYHAIFD QMQLRAEDN EARWKGGIYG RWLPERQKGH LAVERANQVE EFLQRKREAM QNKARAEGHV VYLARLRQIR LQNFNERQI KAKLRGENKE ADGTKGQEAT EETDMRLKKM ESLKAQTNAR AAVLKEQLER KRKEAYEREK KVWEEHLVAR VKSSDVPLPL ELLETGGSPS KQQVKPVISV TSALKEVGLD GSLTDTQEEE MEKSNSAISS KREILRRLNE NLKAQEDEKE KQHHSWSCET VGHKDEREYE TENAISSDRK KWEMGGQLVI

Product Details

PLDAVTLDTFSATEKHTVGEVIKLSNNGSPRKVWGKNPTDSVLKILGAEELQLQTELL
NTSFKSEVYAEENYKPLLEENLQCISKINPSATVDS TETKSPKFTEVSPQMSEGNV
EPPDDLETEVLQEPSSTHTDGSLLPVLNDVWTRKEAAKETELEDKVAVQ QSEVCEDRIP
GNVDQSCCKDQRDPAVDDSPQSGCDVEKSVQ PESIFQKVH SKDLNLVQAVHCSPEEPIPI
RSHSDSPPKT KSKNSLLIGLSTGLFDANNPKMLRTCSLPDLSKLFRTLMDVPTVGDVHQD
SLEIDELEDEPIKEGPSDSEDTVFEETDLDLQELQASMEQLLREQPGDEYSEEEESVLKS
SDVEQTARGETDAPDEEDNPSSESALNEEWHSDNSDAETTS ECEYDSVFNHLEELRLHLEQ
EMGFEEKFEVYEVKVAIHED EDENIEICSTIVENILGNEHQHLYAKILHLVMADGAYQEDNDE

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

Alternative Name: Nek1 ([NEK1 Products](#))

Target Details

Background: Serine/threonine-protein kinase Nek1 (EC 2.7.11.1) (Never in mitosis A-related kinase 1) (NimA-related protein kinase 1),FUNCTION: Phosphorylates serines and threonines, but also appears to possess tyrosine kinase activity (PubMed:1382974). Involved in DNA damage checkpoint control and for proper DNA damage repair (PubMed:18843199). In response to injury that includes DNA damage, NEK1 phosphorylates VDAC1 to limit mitochondrial cell death (By similarity). May be implicated in the control of meiosis (PubMed:1382974). Involved in cilium assembly (By similarity). {ECO:0000250|UniProtKB:Q96PY6, ECO:0000269|PubMed:1382974, ECO:0000269|PubMed:18843199}.

Molecular Weight: 136.7 kDa

UniProt: [P51954](#)

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