

Datasheet for ABIN3135038

NEK10 Protein (AA 1-1111) (Strep Tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	NEK10
Protein Characteristics:	AA 1-1111
Origin:	Mouse
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NEK10 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MPDQDTKAKS TEKTADKQQG TTRDYSDLK RLRCLLNVS SKQQLPAINF DSAQNNMTKS EPTIRTGGHR ARGQWHESTE AVELENFSIN YKNERNFSKH PQHQLFQEIF TALVRNRLIC REWVNRAPSI HFLRVLICLR LLMRDPCYQE ILHKLGGIED LAQYMEIVAN EYLGAAEEQH CVDKLVNMTY IFQKLAVKD QREWVTASGA HKTLVSLGA RDTTVLLGAL LALASLAESS ECREKISELN VVENLLMILH EYDLLSKRLT AELLRLLCAE PQIKEQVKLY EGIPILLSLL HSDHLKLLWS VIWILVQVCE DPETSVEIRI WGGIKQLLHI LQGDRNFVSD RSSIGLSLSSA NAAGRIQLH LSEDLSPGEI EENTVSLQAA CCAALTELAL NDTNAHQVVQ ENGVYTIACL ILPNKQSNAA QTNLLQCYAF RTLRFLFSME RNRPLFKRLF PTDLFETFID IGHYVRDIGA YKDLVSQLNL LLEDELKQIA ENIESINQKK APLKYIGDYA VLDHLGSGAF GCVYKVRKRS GQNLLAMKEV NLHNPAFGKD KKDRDSSVKN IVSELTIIKE QLYHPNVVRY YKTFLENDRL YIVMELIEGA PLGEHFNSLK EKHHHFSEER LWKIFIQLCL ALRYLHKEKR IVHRDLTPNN IMLGDKDKVT VTDFGLAKQK QESSKLTSMV GTILYSCPEV LKSEPYGEKA DVWAAGCILY
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QMATLSPPFC STNMLSLATK IVEAVYEPVP EGIYSEKVTD TIRRCLTPDA EARPDIVEVS
SMISDVMMKY LDRLSTSQLA LERKLERERR RTQRYFMEAN RNAVTCHHEL ALLSQETFEK
ASLSSSSSGA ASLKSELSES AELPGEGCHI PCGKEEDRVC EEVLSEDNFQ LESVEKDLYS
ELDDELVDSD NCSSSSSSPL KESTFSILKR SFSASGRERH SQARDFIAGL GSRPRPGPQM
STFVVESASA GIAVSQRKVR QICDPIQQIL IQLHKVIYIT QLPPALHHDH KRRVIERFKK
SLFSQQSNPC NLKSEIKKLS QGSPEPIELN FLTSDYHSLR HSRAANNWSP SDPTGSPSSF
EVEEGVTYEQ MQTVIEEVLE ESGYYNFTTK R

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.

Product Details

- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target: NEK10

Alternative Name: Nek10 ([NEK10 Products](#))

Background: Serine/threonine-protein kinase Nek10 (EC 2.7.11.1) (Never in mitosis A-related kinase 10) (NimA-related protein kinase 10),FUNCTION: Plays a role in the cellular response to UV irradiation. Mediates G2/M cell cycle arrest, MEK autoactivation and ERK1/2-signaling pathway activation in response to UV irradiation. In ciliated cells, it is involved in the regulation of mucociliary transport. {ECO:0000250|UniProtKB:Q6ZWH5}.

Molecular Weight: 126.1 kDa

UniProt: [Q3UGM2](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months