Datasheet for ABIN3134676

TNIK Protein (AA 1-1323) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	TNIK
Protein Characteristics:	AA 1-1323
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNIK protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MASDSPARSL DEIDLSALRD PAGIFELVEL VGNGTYGQVY KGRHVKTGQL AAIKVMDVTG DEEEEIKQEI NMLKKYSHHR NIATYYGAFI KKNPPGMDDQ LWLVMEFCGA GSVTDLIKNT KGNTLKEEWI AYICREILRG LSHLHQHKVI HRDIKGQNVL LTENAEVKLV DFGVSAQLDR TVGRRNTFIG TPYWMAPEVI ACDENPDATY DFKSDLWSLG ITAIEMAEGA PPLCDMHPMR ALFLIPRNPA PRLKSKKWSK KFQSFIESCL VKNHSQRPAT EQLMKHPFIR DQPNERQVRI QLKDHIDRTK KKRGEKDETE YEYSGSEEEE EENDSGEPSS ILNLPGESTL RRDFLRLQLA NKERSEALRR QQLEQQQREN EEHKRQLLAE RQKRIEEQKE QRRRLEEQQR REKELRKQQE REQRRHYEEQ MRREEERRRA EHEQEYKRKQ LEEQRQAERL QRQLKQERDY LVSLQHQRQE QRPLEKKPLY HYKEGMSPSE KPAWAKEVEE RSRLNRQSSP AMPHKVANRI SDPNLPPRSE SFSISGVQPA RTPPMLRPVD PQIPQLVAVK SQGPALTASQ SVHEQPTKGL SGFQEALNVT SHRVEMPRQN SDPTSENPPL PTRIEKFDRS SWLRQEEDIP PKVPQRTTSI SPALARKNSP GNGSALGPRL GSQPIRASNP DLRRTEPVLE SSLQRTSSGS SSSSSTPSSQ PSSQGGSQPG

SQAGSSERSR VRANSKSEGS PVLPHEPSKV KPEESRDITR PSRPADLTAL AKELRELRIE ETNRPLKKVT DYSSSSEESE SSEEEEEDGE SETHDGTVAV SDIPRLIPTG APGNNEQYNM GMVGTHGLET SHADTFGGSI SREGTLMIRE TAEEKKRSGH SDSNGFAGHI NLPDLVQQSH SPAGTPTEGL GRVSTHSQEM DSGAEYGIGS STKASFTPFV DPRVYQTSPT DEDEEDDESS AAALFTSELL RQEQAKLNEA RKISVVNVNP TNIRPHSDTP EIRKYKKRFN SEILCAALWG VNLLVGTENG LMLLDRSGQG KVYNLINRRR FQQMDVLEGL NVLVTISGKK NKLRVYYLSW LRNRILHNDP EVEKKQGWIT VGDLEGCIHY KVVKYERIKF LVIALKNAVE IYAWAPKPYH KFMAFKSFAD LQHKPLLVDL TVEEGQRLKV IFGSHTGFHV IDVDSGNSYD IYIPSHIQGN ITPHAIVILP KTDGMEMLVC YEDEGVYVNT YGRITKDVVL QWGEMPTSVA YIHSNQIMGW GEKAIEIRSV ETGHLDGVFM HKRAQRLKFL CERNDKVFFA SVRSGGSSQV FFMTLNRNSM MNW

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 -

Product Details

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.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:	TNIK
Alternative Name:	Tnik (TNIK Products)
Background:	Traf2 and NCK-interacting protein kinase (EC 2.7.11.1),FUNCTION: Serine/threonine kinase that acts as an essential activator of the Wnt signaling pathway. Recruited to promoters of Wnt target genes and required to activate their expression. May act by phosphorylating TCF4/TCF7L2. Appears to act upstream of the JUN N-terminal pathway. May play a role in the response to environmental stress. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. More generally, it may play a role in cytoskeletal rearrangements and regulate cell spreading (By similarity). {ECO:0000250}.
Molecular Weight:	150.4 kDa
UniProt:	P83510

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!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)