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TNIK Protein (AA 1-1360) (Strep Tag)



Go to Product page

Overview

Quantity:	1 mg
Target:	TNIK
Protein Characteristics:	AA 1-1360
Origin:	Human
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 EHEQEYIRRQ LEEEQRQLEI LQQQLLHEQA LLLEYKRKQL
EEQRQAERLQ RQLKQERDYL VSLQHQRQEQ RPVEKKPLYH YKEGMSPSEK PAWAKEVEER
SRLNRQSSPA MPHKVANRIS DPNLPPRSES FSISGVQPAR TPPMLRPVDP QIPHLVAVKS
QGPALTASQS VHEQPTKGLS GFQEALNVTS HRVEMPRQNS DPTSENPPLP TRIEKFDRSS
WLRQEEDIPP KVPQRTTSIS PALARKNSPG NGSALGPRLG SQPIRASNPD LRRTEPILES

PLQRTSSGSS SSSSTPSSQP SSQGGSQPGS QAGSSERTRV RANSKSEGSP VLPHEPAKVK
PEESRDITRP SRPASYKKAI DEDLTALAKE LRELRIEETN RPMKKVTDYS SSSEESESSE
EEEEDGESET HDGTVAVSDI PRLIPTGAPG SNEQYNVGMV GTHGLETSHA DSFSGSISRE
GTLMIRETSG EKKRSGHSDS NGFAGHINLP DLVQQSHSPA GTPTEGLGRV STHSQEMDSG
TEYGMGSSTK ASFTPFVDPR VYQTSPTDED EEDEESSAAA LFTSELLRQE QAKLNEARKI
SVVNVNPTNI RPHSDTPEIR KYKKRFNSEI LCAALWGVNL LVGTENGLML LDRSGQGKVY
NLINRRRFQQ MDVLEGLNVL VTISGKKNKL RVYYLSWLRN RILHNDPEVE KKQGWITVGD
LEGCIHYKVV KYERIKFLVI ALKNAVEIYA WAPKPYHKFM AFKSFADLQH KPLLVDLTVE
EGQRLKVIFG SHTGFHVIDV DSGNSYDIYI PSHIQGNITP HAIVILPKTD GMEMLVCYED
EGVYVNTYGR ITKDVVLQWG EMPTSVAYIH SNQIMGWGEK AIEIRSVETG HLDGVFMHKR
AQRLKFLCER NDKVFFASVR SGGSSQVFFM TLNRNSMMNW

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 posttranslational 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.
- 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.
- 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

Alternative Name:

Target:

TNIK

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. Phosphorylates SMAD1 on Thr-322. {ECO:0000269|PubMed:10521462, ECO:0000269|PubMed:15342639, ECO:0000269|PubMed:19061864, ECO:0000269|PubMed:19816403, ECO:0000269|PubMed:20159449, ECO:0000269|PubMed:21690388}.

Molecular Weight:

154.9 kDa

Target Details UniProt: Q9UKE5 **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. ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Comment: 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.

Avoid repeated freeze-thaw cycles.

Unlimited (if stored properly)

-80 °C

Store at -80°C.

Handling Advice:

Storage Comment:

Storage:

Expiry Date: