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Datasheet for ABIN3137425
NRK Protein (AA 1-1455) (Strep Tag)

Overview

Quantity:	1 mg
Target:	NRK
Protein Characteristics:	AA 1-1455
Origin:	Mouse
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NRK protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MAGPGSWRDK EVTDLGQLPD PTGIFSLDKA IGLGTYGRIF LGIHEKTGSL VAVKVMSARK
TLPPEIGRRV RVNKYQKSVG WRYSDEEEDL RTELNLLRKY SFHKNIIVTFY GAFFKLNPPG
HQHQLWMVME LCAAGSVTDV VRMTRNQSLK EDWIAYICRE ILQGLAHLHA HQVIHRDIKQ
QNVLLTHDAE VKIVDFGVSA QVSRTNGRRN SFIGTPYWMA PEVIHCDEDP RCSYDYRSQV
WSVGITAIEM AEGAPPLCKL QPLEALCVIL REAAPKVKSS GWSRKFQNFEM ENCMIKNFLF
RPTSGNMLLH PFVHDIKNER RVVESLTKHL TGIIQKREKK GIPVAFEGEE AAKEQYITRR
FRGPSCTPEL LRVPTSSRCR PLRVLHGEPQ QPRWLDPQED PQDQELQQLQ KAAGVFMPLH
SQDNLSKLFQ KQVEVAPYLR GAAQVMPVVL VQVEAPPQVS KAAQMLKSLP TQDNKATSPE
VQAPVAEGQQ AQHEALETEQ PKDLDQVPEE FQGQDRAPEQ PRQGAAEQQ QIHNPVPEQP
PEEDREPEQA EVQEEAVEPP QAEIEDKEPE VVQVHAQVLL PLLSQNRHVL LPLHLDRQLL
IPVGEQNEEV PRAQAWDLEA SRAVGAVQAL IEGLSRDLLR APNAFVTKPL GPLQIFLENL
STDGFYTEPE PTQKKKSKVA SLRKAIKRL RPKRFRAKAL WRLEDFEFSQ VETSRRRRHR

RWEDIFNQHE EQLRRVENDR EDDSSDNDEV FHSIQAEVQI EPHAANPAGN EVHERSAPMP
CNRNRTHR.VK FSPSVGEEEP SLEEAQPQQQ QQQPMNIRPR NCLNPQNFQA QSDSSSEEDS
PVTRRSQSS PPYSTIDQKL LIDIHVPDGF KVGKISPPVY LTNEWVGYNA LSEIFWDDWI
MPTRPARPPE EDGDYVELYD ADANANGDEE VANGAYEDPR DGANGHDDMN NQLDQANGYE
GHGAAGYNGG DVGGNHGAAF NGPRANYPRA GILKNGHNDG RALNRGAFGV FGDNAARAFH
GAAGEAGAAF GNHGANGNG RGNRNREANG RNEENGAFGR DQHFVPEFEH EESDRGTETS
DSIALEITSF DGEQNSGRP.V SSTTMGFPIG RSSPRGSDFG SDISYNSPIL HVYEKDFSSE
VYCGSLWGVN LLLGTQSHLY LMDRSGKAEI VKLIKRRPFR QIQVVEQLNL LITISGKKNR
LRVYHLSWLR NKILNNDPKS KKRQKAMRKK EEACKAIDKL IGCEHFSVLQ HEETTYIAVA
VKSSIHFAW APKSF.DENTA IKVFPTRDLK PLTVDLAVGS EKTLKIFFSS ANGYHIIDAE
SEVMSEVTLP NNNVILPDC LGLGVMLSLN AEAASEEANE QLLKKILDVW KDIPSSVAFE
CTKRITGWDQ KAIEVRSLS QSTILENELKRR SIKKLRFLCA RGDKMFFAST LSNDHSRVYL
MSLGKLEELH RSYAV

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

Product Details

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®): <ol style="list-style-type: none">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:	NRK
Alternative Name:	Nrk (NRK Products)
Background:	Nik-related protein kinase (EC 2.7.11.1) (Nck-interacting kinase-like embryo specific kinase) (NESK) (NIK-like embryo-specific kinase),FUNCTION: May phosphorylate cofilin-1 and induce actin polymerization through this process, during the late stages of embryogenesis. Involved in the TNF-alpha-induced signaling pathway. {ECO:0000269 PubMed:10801798, ECO:0000269 PubMed:12837278}.
Molecular Weight:	163.6 kDa
UniProt:	Q9R0G8

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)
