Datasheet for ABIN3137425

NRK Protein (AA 1-1455) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	NRK
Protein Characteristics:	AA 1-1455
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NRK protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAGPGSWRDK EVTDLGQLPD PTGIFSLDKA IGLGTYGRIF LGIHEKTGSL VAVKVMSARK TPLPEIGRRV RVNKYQKSVG WRYSDEEEDL RTELNLLRKY SFHKNIVTFY GAFFKLNPPG HQHQLWMVME LCAAGSVTDV VRMTRNQSLK EDWIAYICRE ILQGLAHLHA HQVIHRDIKG QNVLLTHDAE VKIVDFGVSA QVSRTNGRRN SFIGTPYWMA PEVIHCDEDP RCSYDYRSDV WSVGITAIEM AEGAPPLCKL QPLEALCVIL REAAPKVKSS GWSRKFQNFM ENCMIKNFLF RPTSGNMLLH PFVHDIKNER RVVESLTKHL TGIIQKREKK GIPVAFEGEE AAKEQYITRR FRGPSCTPEL LRVPTSSRCR PLRVLHGEPP QPRWLPDQED PQDQELQQLQ KAAGVFMPLH SQDNTSKLFP KQVEVAPYLR GAAQVVMPVL VQVEAPPQVS KAAQMLKSLP TQDNKATSPE VQAPVAEGQQ AQHEALETEQ PKDLDQVPEE FQGQDRAPEQ PRQGQAAEQQ QIHNPVPEQP PEEDREPEQA EVQEEAVEPP QAEIEDKEPE VVQVHAQVLL PLLSQNRHVL LPLHLDRQLL IPVGEQNEEV PRAQAWDLEA SRAVGAVQAL IEGLSRDLLR APNAFVTKPL GPLQIFLENL

STDGFYTEPE PTQKKKSKVA SLRKAIAKRL RPKRFRAKAL WRLEDFEFSD VETSRRRRHR RWEDIFNQHE EQLRRVENDR EDDSSDNDEV FHSIQAEVQI EPHAANPAGN EVHERSAPMP CNRNRTHRVK FSPSVGEEEP SLEEAQPQQQ QQQPMNIRPR NCLNPQNFQA QSDSSSEEDS PVTRRKSQSS PPYSTIDQKL LIDIHVPDGF KVGKISPPVY LTNEWVGYNA LSEIFWDDWI MPTRPARPPE EDGDYVELYD ADANANGDEE VANGAYEDPR DGANGHDDMN NQLDQANGYE GHGAAGYNGG DVGGNHGAAF NGPRANYPRA GILKNGHNDG RALNRGAFGV FGDNAARAFH GAAGEAGAAF GNHGANRGNG RGNRNREANG RNEENGAFGR DQHVFPEFEH EESDRGTETS DSIALEITSF DGEQNSGRPV SSTTMGFPIG RSSPRGSDFG SDISYNSPIL HVYEKDFSSE VYCGSLWGVN LLLGTQSHLY LMDRSGKAEI VKLIKRRPFR QIQVVEQLNL LITISGKKNR LRVYHLSWLR NKILNNDPKS KKRQKAMRKK EEACKAIDKL IGCEHFSVLQ HEETTYIAVA VKSSIHLFAW APKSFDENTA IKVFPTRDLK PLTVDLAVGS EKTLKIFFSS ANGYHIIDAE SEVMSEVTLP NNNVVILPDC LGLGVMLSLN AEAASEEANE QLLKKILDVW KDIPSSVAFE CTKRITGWDQ KAIEVRSLQS TILENELKRR 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 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

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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 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:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

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

Application Details

	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. 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