Datasheet for ABIN3135804

TNKS Protein (AA 1-1320) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	TNKS
Protein Characteristics:	AA 1-1320
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNKS protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MAASRRSQHH HHHHQQQLQP APGASAPPPP PPPPLSPGLA PGPTPASPTA GGLAPFASPR HGLALPEGDG SRDPPDRPRS PDPVDGAVCT VAAPAAVPAA SAAVGVAPTP AGGGGGGGNN SASSASSPTS SSSSSPSSPG SSLAESPEAA GVGSTATLGA GAAGLGPGVP AVSGALRELL EACRNGDVSR VKRLVDAANV NAKDMAGRKS SPLHFAAGFG RKDVVEHLLQ MGANVHARDD GGLIPLHNAC SFGHAEVVSL LLCQGADPNA RDNWNYTPLH EAAIKGKIDV CIVLLQHGAD PNIRNTDGKS ALDLADPSAK AVLTGEYKKD ELLEAARSGN EEKLMALLTP LNVNCHASDG RKSTPLHLAA GYNRVRIVQL LLQHGADVHA KDKGGLVPLH NACSYGHYEV TELLLKHGAC VNAMDLWQFT PLHEAASKNR VEVCSLLLSH GADPTLVNCH GKSAVDMAPT PELRERLTYE FKGHSLLQAA READLAKVKK TLALEIINFK QPQSHETALH CAVASLHPKR KQVAELLLRK GANVNEKNKD FMTPLHVAAE RAHNDVMEVL HKHGAKMNAL DSLGQTALHR AALAGHLQTC RLLLSYGSDP SIISLQGFTA AQMGNEAVQQ ILSESTPMRT SDVDYRLLEA SKAGDLETVK

QLCSPQNVNC RDLEGRHSTP LHFAAGYNRV SVVEYLLHHG ADVHAKDKGG LVPLHNACSY GHYEVAELLV RHGASVNVAD LWKFTPLHEA AAKGKYEICK LLLKHGADPT KKNRDGNTPL DLVKEGDTDI QDLLRGDAAL LDAAKKGCLA RVQKLCTPEN INCRDTQGRN STPLHLAAGY NNLEVAEYLL EHGADVNAQD KGGLIPLHNA ASYGHVDIAA LLIKYNTCVN ATDKWAFTPL HEAAQKGRTQ LCALLLAHGA DPTMKNQEGQ TPLDLATADD IRALLIDAMP PEALPTCFKP QATVVSASLI SPASTPSCLS AASSIDNLTG PLTDLAVGGA SNAGDGAAGA ERKEGEVAGL DMNISQFLKS LGLEHLRDIF ETEQITLDVL ADMGHEELKE IGINAYGHRH KLIKGVERLL GGQQGTNPYL TFHCVNQGTI LLDLAPEDKE YQSVEEEMQS TIREHRDGGN AGGIFNRYNV IRIQKVVNKK LRERFCHRQK EVSEENHNHH NERMLFHGSP FINAIIHKGF DERHAYIGGM FGAGIYFAEN SSKSNQYVYG IGGGTGCPTH KDRSCYICHR QMLFCRVTLG KSFLQFSTMK MAHAPPGHHS VIGRPSVNGL AYAEYVIYRG EQAYPEYLIT YQIMKPEAPS QTATAAEQKT

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 -

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 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:	TNKS
Alternative Name:	Tnks (TNKS Products)
Background:	Poly [ADP-ribose] polymerase tankyrase-1 (EC 2.4.2.30) (ADP-ribosyltransferase diphtheria toxin-like 5) (ARTD5) (Protein poly-ADP-ribosyltransferase tankyrase-1) (EC 2.4.2.-) (TRF1-interacting ankyrin-related ADP-ribose polymerase 1) (Tankyrase I) (Tankyrase-1) (TANK1),FUNCTION: Poly-ADP-ribosyltransferase involved in various processes such as Wnt signaling pathway, telomere length and vesicle trafficking. Acts as an activator of the Wnt signaling pathway by mediating poly-ADP-ribosylation (PARsylation) of AXIN1 and AXIN2, 2 key components of the beta-catenin destruction complex: poly-ADP-ribosylated target proteins are recognized by RNF146, which mediates their ubiquitination and subsequent degradation. Also mediates PARsylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent ubiquitination. Mediates PARsylation of TERF1, thereby contributing to the regulation of telomere length. Involved in centrosome maturation during prometaphase by mediating PARsylation of HEPACAM2/MIKI. May also regulate vesicle trafficking and modulate the subcellular distribution of SLC2A4/GLUT4-vesicles. May be involved in spindle pole assembly through PARsylation of NUMA1. Stimulates 26S proteasome activity. {ECO:0000250|UniProtKB:O95271}.
Molecular Weight:	140.9 kDa
UniProt:	Q6PFX9

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. 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