Datasheet for ABIN3096000

TNKS2 Protein (AA 1-1166) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TNKS2
Protein Characteristics:	AA 1-1166
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNKS2 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MSGRRCAGGG AACASAAAEA VEPAARELFE ACRNGDVERV KRLVTPEKVN SRDTAGRKST PLHFAAGFGR KDVVEYLLQN GANVQARDDG GLIPLHNACS FGHAEVVNLL LRHGADPNAR DNWNYTPLHE AAIKGKIDVC IVLLQHGAEP TIRNTDGRTA LDLADPSAKA VLTGEYKKDE LLESARSGNE EKMMALLTPL NVNCHASDGR KSTPLHLAAG YNRVKIVQLL LQHGADVHAK DKGDLVPLHN ACSYGHYEVT ELLVKHGACV NAMDLWQFTP LHEAASKNRV EVCSLLLSYG ADPTLLNCHN KSAIDLAPTP QLKERLAYEF KGHSLLQAAR EADVTRIKKH LSLEMVNFKH PQTHETALHC AAASPYPKRK QICELLLRKG ANINEKTKEF LTPLHVASEK AHNDVVEVVV KHEAKVNALD NLGQTSLHRA AYCGHLQTCR LLLSYGCDPN IISLQGFTAL QMGNENVQQL LQEGISLGNS EADRQLLEAA KAGDVETVKK LCTVQSVNCR DIEGRQSTPL HFAAGYNRVS VVEYLLQHGA DVHAKDKGGL VPLHNACSYG HYEVAELLVK HGAVVNVADL WKFTPLHEAA AKGKYEICKL LLQHGADPTK KNRDGNTPLD LVKDGDTDIQ DLLRGDAALL DAAKKGCLAR

VKKLSSPDNV NCRDTQGRHS TPLHLAAGYN NLEVAEYLLQ HGADVNAQDK GGLIPLHNAA SYGHVDVAAL LIKYNACVNA TDKWAFTPLH EAAQKGRTQL CALLLAHGAD PTLKNQEGQT PLDLVSADDV SALLTAAMPP SALPSCYKPQ VLNGVRSPGA TADALSSGPS SPSSLSAASS LDNLSGSFSE LSSVVSSSGT EGASSLEKKE VPGVDFSITQ FVRNLGLEHL MDIFEREQIT LDVLVEMGHK ELKEIGINAY GHRHKLIKGV ERLISGQQGL NPYLTLNTSG SGTILIDLSP DDKEFQSVEE EMQSTVREHR DGGHAGGIFN RYNILKIQKV CNKKLWERYT HRRKEVSEEN HNHANERMLF HGSPFVNAII HKGFDERHAY IGGMFGAGIY FAENSSKSNQ YVYGIGGGTG CPVHKDRSCY ICHRQLLFCR VTLGKSFLQF SAMKMAHSPP GHHSVTGRPS VNGLALAEYV IYRGEQAYPE YLITYQIMRP EGMVDG

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 - all that's needed is the DNA that codes for the desired protein!

Product Details

	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:	TNKS2
Alternative Name:	TNKS2 (TNKS2 Products)
Background:	Poly [ADP-ribose] polymerase tankyrase-2 (EC 2.4.2.30) (ADP-ribosyltransferase diphtheria toxin-like 6) (ARTD6) (Poly [ADP-ribose] polymerase 5B) (Protein poly-ADP-ribosyltransferase tankyrase-2) (EC 2.4.2.-) (TNKS-2) (TRF1-interacting ankyrin-related ADP-ribose polymerase 2) (Tankyrase II) (Tankyrase-2) (TANK2) (Tankyrase-like protein) (Tankyrase-related protein),FUNCTION: Poly-ADP-ribosyltransferase involved in various processes such as Wnt signaling pathway, telomere length and vesicle trafficking (PubMed:11739745, PubMed:11802774, PubMed:19759537, PubMed:21478859, PubMed:23622245, PubMed:25043379). Acts as an activator of the Wnt signaling pathway by mediating poly-ADP-ribosylation 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 (PubMed:19759537, PubMed:21478859). Also mediates poly-ADP-ribosylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent ubiquitination (PubMed:21478859). Mediates poly-ADP-ribosylation of TERF1, thereby contributing to the regulation of telomere length (PubMed:11739745). Stimulates 26S proteasome activity (PubMed:23622245). {ECO:0000269|PubMed:11739745, ECO:0000269|PubMed:11802774, ECO:0000269|PubMed:19759537, ECO:0000269|PubMed:21478859, ECO:0000269|PubMed:23622245, ECO:0000269|PubMed:25043379}.
Molecular Weight:	126.9 kDa
UniProt:	Q9H2K2

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