

Datasheet for ABIN3096000

TNKS2 Protein (AA 1-1166) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	TNKS2
Protein Characteristics:	AA 1-1166
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNKS2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	<p>MSGRRRCAGGG AACASAAAEA VEPAARELFE ACRNGDVERV KRLVTPEKVN SRDTAGRKST</p> <p>PLHFAAGFGR KDVVEYLLQN GANVQARDDG GLIPLHNACS FGHADEVNLL LRHGADPNAR</p> <p>DNWNYTPLHE AAIKGKIDVC IVLLQHGAEF TIRNTDGRTA LDLADPSAKA VLTGEYKKDE</p> <p>LLESARSGNE EKMMALLTPL NVNCHASDGR KSTPLHLAAG YNRVKIVQLL LQHGADVHAK</p> <p>DKGDLVPLHN ACSYGHYEVT ELLVKHGACV NAMDLWQFTP LHEAASKNRV EVCSLLLSYG</p> <p>ADPTLLNCHN KSAIDLPTP QLKERLAYEF KGHSLLQAAR EADVTRIKKH LSLEMVNFKH</p> <p>PQTHETALHC AAASPYPKRK QICELLRRKG ANINEKTKEF LTPLVHASEK AHNDVVEVVV</p> <p>KHEAKVNALD NLGQTS LHRA AYCGLHQTCT LLSYGCDDN IISLQGFTAL QMGNEENVQQL</p> <p>LQEGISLGNS EADRQLLEAA KAGDVETVKK LCTVQSVNCR DIEGRQSTPL HFAAGYNRVS</p> <p>VVEYLLQHGA DVHAKDKGGL VPLHNACSYG HYEVAELLVK HGAVVNVADL WKFTPLHEAA</p> <p>AKGKYEICKL LLQHGADPTK KNRDGNTPLD LVKDGDTDIQ DLLRGDAALL DAAKKGCLAR</p> <p>VKKLSSPDNV NCRDTQGRHS TPLHLAAGYN NLEVAEYLLQ HGADVNAQDK GGLIPLHNAA</p>
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SYGHVDVAAL LIKYNACVNA TDKWAFTPLH EAAQKGRTQL CALLLAHGAD PTLKNQEGQT
PLDLVSADDV SALLTAAMPP SALPSCYKPKQ VLNGVRSPGA TADALSSGPS SPSSLSAASS
LDNLGSGFSE LSSVSSSGT EGASSLEKKE VPGVDFSITQ FVRNLGLEHL MDIFEREQIT
LDVLVEMGHK ELKEIGINAY GHRHKLKGV ERLISGQQGL NPYLTLNTSG SGTILIDLSP
DDKEFQSVEE EMQSTVREHR DGGHAGGIFN RYNILKIQKV CNKKLWERYT HRRKEVSEEN
HNHANERMLF HGSPFVNAIL HKGFDERHAY IGGMFGAGIY FAENSSKSNQ YVYGIGGGTG
CPVHKDRSCY ICHRQLFCR VTLGKSFLQF SAMKMAHSPP GHHSVTGRPS VNGLALAEYV
IYRGEQAYPE YLITYQIMRP EGMVDG

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human TNKS2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.

Product Details

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: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: TNKS2

Alternative Name: TNKS2 ([TNKS2 Products](#))

Background: 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 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 poly-ADP-ribosylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent ubiquitination. Mediates poly-ADP-ribosylation of TERF1, thereby contributing to the regulation of telomere length. May also regulate vesicle trafficking and modulate the subcellular distribution of SLC2A4/GLUT4-vesicles. Stimulates 26S proteasome activity.
{ECO:0000269|PubMed:11739745, ECO:0000269|PubMed:11802774, ECO:0000269|PubMed:19759537, ECO:0000269|PubMed:21478859, ECO:0000269|PubMed:23622245}.

Molecular Weight: 127.9 kDa Including tag.

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: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to

Application Details

increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process