

Datasheet for ABIN7564126  
**TNKS Protein (AA 1-1320) (His tag)**



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## Overview

Quantity:	1 mg
Target:	TNKS
Protein Characteristics:	AA 1-1320
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNKS protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Tnks Protein expressed in mammalien cells.
Sequence:	MAASRRSQHH HHHHQQLQP APGASAPPPP PPPPLSPGLA PGPTPASPTA GGLAPFASPR HGLALPEGDG SRDPPDRPRS PDPVDGAVCT VAAPAAVPAA SAAVGVAPTP AGGGGGGGNN SASSASSPTS SSSSSPSSPG SSLAESPEAA GVGSTATLGA GAAGLPGVP AVSGALRELL EACRNGDVSR VKRLVDAANV NAKDMAGRKS SPLHFAAGFG RKDVVEHLLQ MGANVHARDD GGLIPLHNAC SFGHAEVSL LLCQGADPNA RDNWNYTPLH EAAIKGKIDV CIVLLQHGAD PNIRNTDGKS ALDLADPSAK AVLTGEYKGD ELLEAARSGN EEKLMALLTP LNVNCHASDG RKSTPLHLAA GYNRVIVQL LLQHGADVHA KDKGGLVPLH NACSYGHYEV TELLKKGAC VNAMDLWQFT PLHEAASKNR VEVCSLLLSH GADPTLVNCH GKSAVDMAPT PELRERLYE FKGHSLLQAA READLAKVKK TLALEIINFK QPQSHETALH CAVASLHPKR KQVAELLRK GANVNEKNKD FMTPLHVAE RAHNDVMEVL HKHGAKMNAL DSLGQTALHR AALAGHLQTC RLLLSYGSDP SIISLQGFTA AQMGNEAVQQ ILSESTPMRT SDVDYRLLLEA SKAGDLETVK

## Product Details

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

**Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

TNKS

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## Target Details

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Alternative Name: Tnks ([TNKS Products](#))

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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/MIK1. 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}.

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Molecular Weight: 140.9 kDa

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UniProt: [Q6PFX9](#)

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## Application Details

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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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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