

Datasheet for ABIN7555777
TNKS Protein (AA 1-1327) (His tag)



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Overview

Quantity:	1 mg
Target:	TNKS
Protein Characteristics:	AA 1-1327
Origin:	Human
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 PGTPASPTA SGLAPFASPR HGLALPEGDG SRDPPDRPRS PDPVDGTSCC STTSTICTVA AAPVVPVAVST SSAAGVAPNP AGSGSNNSPS SSSSPTSSSS SSPSSPGSSL AESPEAAGVS STAPLPGGAA GPGTGVAVS GALRELLEAC RNGDVSRVKR LVDAANVNAK DMAGRKSSPL HFAAGFGRKD VVEHLLQMGA NVHARDDGGL IPLHNACSGF HAEVVSLLLC QGADPNARDN WNYTPLHEAA IKGKIDVCIV LLQHGDAPNI RNTDGKSALD LADPSAKAVL TGEYKKDELL EAARSGNEEK LMALLTPLNV NCHASDGRKS TPLHLAAGYN RVRIVQLLQ HGADVHAKDK GGLVPLHNAC SYGHYEVEL LLKHGACVNA MDLWQFTPLH EAASKNRVEV CSLLSHGAD PTLVNCHGKS AVDMAPTPEL RERLTYEFKG HSLLQAAREA DLAKVKKTLA LEIINFKQPQ SHETALHCAV ASLHPKRKQV TELLLRKGAN VNEKNKDFMT PLHVAERAH NDVMEVLHKH GAKMNALDTL GQTALHRAAL AGHLQTCRLL LSYGSDPSII SLQGFTAAQM GNEAVQILS ESTPIRTSDV DYRLLLEASKA

Product Details

GDLETVKQLC SSQNVNCRDL EGRHSTPLHF AAGYNRVSVV EYLLHHGADV HAKDKGGLVP
LHNACSYGHY EVAELLVRHG ASVNVADLWK FTPLHEAAAK GKYEICKLLL KHGADPTKKN
RDGNTPLDLV KEGDTDIQDL LRGDAALLDA AKKGCLARVQ KLCTPENINC RDTQGRNSTP
LHLAAGYNNL EVAEYLLEHG ADVNAQDKGG LIPLHNAASY GHVDIAALLI KYNTCVNATD
KWAFTPLHEA AQKGRQLCA LLLAHGADPT MKNQEGQTPL DLATADDIRA LLIDAMPPEA
LPTCFKPQAT VVSASLISPA STPSCLSAAS SIDNLTGPLA ELAVGGASNA GDGAAGTERK
EGEVAGLDMN ISQFLKSLGL EHLRDIFETE QITLDVLADM GHEELKEIGI NAYGHRHCLI
KGVERRLLGGQ QGTNPYLTFH CVNQGTILLD LAPEDKEYQS VEEEMQSTIR EHRDGGNAGG
IFNRYNVIRI QKVVNKKLRE RFCHRQKEVS EENHNHHNER MLFHGSPFIN AIIHKGFDER
HAYIGGMFGA GIYFAENSSK SNQYVYGIGG GTGCPHDKDR SCYICHRQML FCRVTLGKSF
LQFSTMKMAH APPGHHSVIG RPSVNGLAYA EYVIYRGEQA YPEYLITYQI MKPEAPSQTA
TAAEQKT **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.**

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.

Purity:

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

Grade:

custom-made

Target Details

Target:

TNKS

Target Details

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

Background: Poly [ADP-ribose] polymerase tankyrase-1 (EC 2.4.2.30) (ADP-ribosyltransferase diphtheria toxin-like 5) (ARTD5) (Poly [ADP-ribose] polymerase 5A) (Protein poly-ADP-ribosyltransferase tankyrase-1) (EC 2.4.2.-) (TNKS-1) (TRF1-interacting ankyrin-related ADP-ribose polymerase) (Tankyrase I) (Tankyrase-1) (TANK1),FUNCTION: Poly-ADP-ribosyltransferase involved in various processes such as Wnt signaling pathway, telomere length and vesicle trafficking (PubMed:10988299, PubMed:11739745, PubMed:16076287, PubMed:19759537, PubMed:21478859, PubMed:22864114, PubMed:23622245, PubMed:25043379, PubMed:28619731). 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 (PubMed:19759537, PubMed:21478859). Also mediates PARsylation of BLZF1 and CASC3, followed by recruitment of RNF146 and subsequent ubiquitination (PubMed:21478859). Mediates PARsylation of TERF1, thereby contributing to the regulation of telomere length (PubMed:11739745). Involved in centrosome maturation during prometaphase by mediating PARsylation of HEPACAM2/MIKI (PubMed:22864114). May also regulate vesicle trafficking and modulate the subcellular distribution of SLC2A4/GLUT4-vesicles (PubMed:10988299). May be involved in spindle pole assembly through PARsylation of NUMA1 (PubMed:16076287). Stimulates 26S proteasome activity (PubMed:23622245). {ECO:0000269|PubMed:10988299, ECO:0000269|PubMed:11739745, ECO:0000269|PubMed:16076287, ECO:0000269|PubMed:19759537, ECO:0000269|PubMed:21478859, ECO:0000269|PubMed:22864114, ECO:0000269|PubMed:23622245, ECO:0000269|PubMed:25043379, ECO:0000269|PubMed:28619731}.

Molecular Weight: 142.0 kDa

UniProt: [O95271](#)

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.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months