

Datasheet for ABIN7562457  
**TNK2 Protein (AA 1-1055) (His tag)**



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## Overview

Quantity:	1 mg
Target:	TNK2
Protein Characteristics:	AA 1-1055
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNK2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Tnk2 Protein expressed in mammalian cells.
Sequence:	<p>MQPEEGTGWL LELLSEVQLQ QYFLRLRDDL NITRLSHFEY VKNEDLEKIG MGRPGQRRLW EAVKRRKAMC KRKSWMSKVF SGKRLAEFP SQHSQSTFRK PSPTPGSLPG EGTLSLTCL IGEKDLRLLK LKGDGSFGVW RRGWDAPAG KTVSVAVKCL KPDVLSQPEA MDDFIREVNA MHSLDHRNLI RLYGVVLTLP MKMVTELAPL GSLLDRLRKH QGHFLLGTLS RYAVQVAEGM AYLESKRFIH RDLAARNLLL ATRDLVKIGD FGLMRALPQN DDHYVMQEHR KVPFAWCAPE SLKTRTFSHA SDTWMFGVTL WEMFTYGQEP WIGLNGSQIL HKIDKEGERL PRPEDCPQDI YNVMVQCWAH KPEDRPTFVA LRDFLLEAQP TDMRALQDFE EPDKLHIQMN DVITVIEGRA ENYWWRGQNT RTLCVGFPPR NVVTSVAGLS AQDISQPLQN SFIHTGHGDS DPRHCWGFFD RIDELYLGNP MDPPDLLSVE LSTRPTQHL GRVKREPPPR PPQPAIFTQK TTYDPVSEDP DPLSSDFKRL GLRKPALPRG LWLAKPSARV PGTKADRSSG GEVTLIDFGE EPVVPTPRPC APSLAQLAMD ACSLLDKTPP QSPTRALPRP LHPTPVVDWD ARPLPPPPAY DDVAQDEDDF EVCSINSTLV GAGLPAGPSQ GETNYAFVPE QAQMPPALED NLFLPPQGGG KPPSSVQTAE</p>

## Product Details

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IFQALQQECM RQLQVPTGQL TPSPTPGGDD KPQVPPRVPI PPRPTRPRVE LSPAPSGEEE  
TSRWPGPASP PRVPPREPLS PQGSRTSPSL VPPGSSPLPH RLSSSPGKTM PTTQSFASDP  
KYATPQVIQA PGPRAGPCIL PIVRDGRKVS STHYLLPER PPYLERYQRF LREAQSPEEP  
AALVPPLLP PPSTPAPAAP TATVRPMPQA APDPKANFST NNSNPGARPP SLRAAARLPQ  
RGCPGDGQEA ARPADKVQML QAMVHGVTTTE ECQAALQSHS WSVQRAAQYL KVEQLFGLGL  
RPRVECHKVL EMFDWNLEQA GCHLLGSCGP AHHKR **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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

## Target Details

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Target: TNK2

Alternative Name: Tnk2 ([TNK2 Products](#))

Background: Activated CDC42 kinase 1 (ACK-1) (EC 2.7.10.2) (EC 2.7.11.1) (Non-receptor protein tyrosine kinase Ack) (Tyrosine kinase non-receptor protein 2),FUNCTION: Non-receptor tyrosine-protein

## Target Details

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and serine/threonine-protein kinase that is implicated in cell spreading and migration, cell survival, cell growth and proliferation. Transduces extracellular signals to cytosolic and nuclear effectors. Phosphorylates AKT1, AR, MCF2, WASL and WWOX. Implicated in trafficking and clathrin-mediated endocytosis through binding to epidermal growth factor receptor (EGFR) and clathrin. Binds to both poly- and mono-ubiquitin and regulates ligand-induced degradation of EGFR, thereby contributing to the accumulation of EGFR at the limiting membrane of early endosomes. Downstream effector of CDC42 which mediates CDC42-dependent cell migration via phosphorylation of BCAR1. May be involved both in adult synaptic function and plasticity and in brain development. Activates AKT1 by phosphorylating it on 'Tyr-176'. Phosphorylates AR on 'Tyr-267' and 'Tyr-363' thereby promoting its recruitment to androgen-responsive enhancers (AREs). Phosphorylates WWOX on 'Tyr-287'. Phosphorylates MCF2, thereby enhancing its activity as a guanine nucleotide exchange factor (GEF) toward Rho family proteins. Contributes to the control of AXL receptor levels. Confers metastatic properties on cancer cells and promotes tumor growth by negatively regulating tumor suppressor such as WWOX and positively regulating pro-survival factors such as AKT1 and AR. {ECO:0000269|PubMed:17182860, ECO:0000269|PubMed:20333297}.

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Molecular Weight: 117.0 kDa

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UniProt: [O54967](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. 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

## 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