

Datasheet for ABIN3088053

TNK2 Protein (AA 1-1038) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	TNK2
Protein Characteristics:	AA 1-1038
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNK2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MQPEEGTGWL LELLSEVQLQ QYFLRLRDDL NVTRLSHFEY VKNEDLEKIG MGRPGQRRWL</p> <p>EAVKRRKALC KRKSWMSKVF SGKRLEAEFP PHHSQSTFRK TSPAPGGPAG EGPLQSLTCL</p> <p>IGEKDLRLLK KLGDGSFGVV RRGWDAPSG KTVSVAVKCL KPDVLSQPEA MDDFIREVNA</p> <p>MHSLDHRNLI RLYGVVLTTP MKMVTTELAPL GSLLDRLRKH QGHFLLGTLS RYAVQVAEGM</p> <p>GYLESKRFIH RDLAARNLLL ATRDLVKIGD FGLMRALPQN DDHYVMQEHR KVPFAWCAPE</p> <p>SLKTRTFSHA SDTWMFGVTL WEMFTYGQEP WIGLNGSQIL HKIDKEGERL PRPEDCPQDI</p> <p>YNVMVQCWAH KPEDRPTFVA LRDFLLAQTP TDMRALQDFE EPDKLHIQMN DVITVIEGRA</p> <p>ENYWWRGQNT RTLCVGPFPF NVVTSVAGLS AQDISQPLQN SFIHTGHGDS DPRHCWGFPD</p> <p>RIDELYLGNP MDPPDLLSVE LSTSRPPQHL GGVKKPTYDP VSEDQDPLSS DFKRLGLRKP</p> <p>GLPRGLWLAK PSARVPGTKA SRGSGAEVTL IDFGEEPVPV ALRPCAPSLA QLAMDACSL</p> <p>DETTPQSPTR ALPRPLHPTP VVDWDARPLP PPPAYDDVAQ DEDDFEICSI NSTLVGAGVP</p>

AGPSQGQTN Y AFVPEQARPP PPLEDNLFLP PQGGGKPPSS AQTAEIFQAL QQECMRQLQA
PAGSPAPSPS PGGDDKPQVP PRVPIPPRPT RPHVQLSPAP PGEEETSQWP GPASPPRVPP
REPLSPQGSR TPSPLVPPGS SPLPPRLSSS PGKTMPTTQS FASDPKYATP QVIQAPGPRA
GPCILPIVRD GKKVSSTHYY LLPERPSYLE RYQRFLREAQ SPEEPTPLPV PLLPPPPSTP
APAAPTATVR PMPQAALDPK ANFSTNNSNP GARPPPPRAT ARLPQRGCPG DGPEAGRPAD
KIQMAMVHGV TTEECQAALQ CHGWSVQRAA QYLKVEQLFG LGLRPRGECH KVLEMFWDNL
EQAGCHLLGS WGPAAHHR

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!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.

Product Details

- 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®).
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Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
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Grade:	custom-made
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Target Details

Target:	TNK2
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Alternative Name:	TNK2 (TNK2 Products)
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Background:	<p>Activated CDC42 kinase 1 (ACK-1) (EC 2.7.10.2) (EC 2.7.11.1) (Tyrosine kinase non-receptor protein 2),FUNCTION: Non-receptor tyrosine-protein and serine/threonine-protein kinase that is implicated in cell spreading and migration, cell survival, cell growth and proliferation.</p> <p>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. Phosphorylates WASP (PubMed:20110370).</p> <p>{ECO:0000269 PubMed:10652228, ECO:0000269 PubMed:11278436, ECO:0000269 PubMed:16247015, ECO:0000269 PubMed:16257963, ECO:0000269 PubMed:16472662, ECO:0000269 PubMed:17038317, ECO:0000269 PubMed:18262180, ECO:0000269 PubMed:18435854, ECO:0000269 PubMed:19815557, ECO:0000269 PubMed:20110370,</p>
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Target Details

ECO:0000269|PubMed:20333297, ECO:0000269|PubMed:20383201}.

Molecular Weight: 114.6 kDa

UniProt: [Q07912](#)

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