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Datasheet for ABIN3093206
KANK2 Protein (AA 1-851) (Strep Tag)

Overview

Quantity:	1 mg
Target:	KANK2
Protein Characteristics:	AA 1-851
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KANK2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MAQVLHVPAP FPGTGPASP PAFPAKDPDP PYSVETPYGY RLDLDFLKYY DDIEKGHTLR
RVAVQRRPRL SSLPRGPGSW WTSTESLCSN ASGDSRHSAY SYCGRGFYPQ YGALETRGGF
NPRVERTLLD ARRRLEDQAA TPTGLGSLTP SAAGSTASLV GVGLPPPTPR SSSLSTPVPP
SAGHLAHVRE QMAGALRKLR QLEEQVKLIP VLQVKLSVLQ EEKRQLTVQL KSQKFLGHPT
AGRGRSELCL DLPDPPEDPV ALETRSVGTW VRERDLGMPD GEAALAAKVA VLETQLKKAL
QELQAAQARQ ADPQPQAWPP PDSPVRVDTV RVVEGPVEVE VVASTAAGAP AQRAQSLEPY
GTGLRALAMP GRPESPPVFR SQEVVETMCP VPAAATSNVH MVKKISITER SCDGAAGLPE
VPAESSSSPP GSEVASLTQP EKSTGRVPTQ EPTHREPTRQ AASQESEEAG GTGGPPAGVR
SIMKRKEEVA DPTAHRRLSQ FVGVNNGGYES SSEDSTAEN ISDNDSTENE APEPRERVPS
VAEAPQLRPA GTAAAKTSRQ ECQLSRESQH IPTAEGASGS NTEEEIRMEL SPDLISACLA
LEKYLDNPNA LTERELKVAY TTVLQEWLRL ACRSDAHPPEL VRRHLVTFRA MSARLLDYVW
NIADSNNGTA LHYSVSHANF PVVQQLLDSG VCKVDKQNRA GYSPIMLTAL ATLKTQDDIE

TVLQLFRLGN INAKASQAGQ TALMLAVSHG RVDVVKALLA CEADVNVQDD DGSTALMCAC
EHGHKEIAGL LLAVPSCDIS LTDRDGSTAL MVALDAGQSE IASMLYSRMN IKCSFAPMSD
DESPTSSSAE E

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	KANK2
Alternative Name:	KANK2 (KANK2 Products)
Background:	KN motif and ankyrin repeat domain-containing protein 2 (Ankyrin repeat domain-containing protein 25) (Matrix-remodeling-associated protein 3) (SRC-1-interacting protein) (SIP) (SRC-interacting protein) (SRC1-interacting protein),FUNCTION: Involved in transcription regulation by sequestering in the cytoplasm nuclear receptor coactivators such as NCOA1, NCOA2 and NCOA3 (PubMed:17476305). Involved in regulation of caspase-independent apoptosis by sequestering the proapoptotic factor AIFM1 in mitochondria (PubMed:22371500). Pro-apoptotic stimuli can induce its proteasomal degradation allowing the translocation of AIFM1 to the nucleus to induce apoptosis (PubMed:22371500). Involved in the negative control of vitamin D receptor signaling pathway (PubMed:24671081). Involved in actin stress fibers formation through its interaction with ARHGDI1 and the regulation of the Rho signaling pathway (PubMed:17996375, PubMed:25961457). May thereby play a role in cell adhesion and migration, regulating for instance podocytes migration during development of the kidney (PubMed:25961457). Through the Rho signaling pathway may also regulate cell proliferation (By similarity). {ECO:0000250 UniProtKB:Q8BX02, ECO:0000269 PubMed:17476305, ECO:0000269 PubMed:17996375, ECO:0000269 PubMed:22371500, ECO:0000269 PubMed:24671081, ECO:0000269 PubMed:25961457}.
Molecular Weight:	91.2 kDa
UniProt:	Q63ZY3

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. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)
