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Datasheet for ABIN3095669
SRPK2 Protein (AA 1-688) (Strep Tag)

Overview

Quantity:	1 mg
Target:	SRPK2
Protein Characteristics:	AA 1-688
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SRPK2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence: MSVNSEKSSS SERPEPQKA PLVPPPPPPP PPPPPPLPDP TPPEPEEEIL GSDDEEQEDP
ADYCKGGYHP VKIGDLFNGR YHVIRKLGWG HFSTVWLCWD MQGKRFVAMK VVKS AQHYTE
TALDEIKLLK CVRES DSPD NKDMVVQLID DFKISGMNGI HVC MVFEVLG HHLLKWIIS
NYQGLPVRCV KSIIRQLQG LDYLHCKKI IHTDIKPENI LMCVDDAYVR RMAAEATEWQ
KAGAPPPSGS AVSTAPQKP IKGISKNNKK KLKKKQKRQA ELLEKRLQEI EELEREAERK
IIEENITSA PSNDQDGEYC PEVKLKTGL EEAEEAETAK DNGEAEDQEE KEDAEKENIE
KDEDDVDQEL ANIDPTWIES PKTNGHIENG PFSLEQLDD EDDDEEDCPN PEEYNLDEPN
AESDYTYSSS YEQFNGELPN GRHKIPESQF PEFSTSLFSG SLEPVACGSV LSEGSPLTEQ
EESSPHDRS RTVSASSTGD LPKAKTRAAD LLVNPLDPRN ADKIRVKIAD LGNACWVHKH
FTEDIQTRQY RSIEVLIGAG YSTPADIWST ACMAFELATG DYLFEPHSGE DYSRDEDHIA
HIIELLSGIP RHFALSGKYS REFFNRRGEL RHITKLPWS LFDVLVEKYG WPHEDAAQFT
DFLIPMLEMV PEKRASAGEC LRHPWLNS

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.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

Product Details

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)

Target Details

Target: SRPK2

Alternative Name: SRPK2 ([SRPK2 Products](#))

Background: SRSF protein kinase 2 (EC 2.7.11.1) (SFRS protein kinase 2) (Serine/arginine-rich protein-specific kinase 2) (SR-protein-specific kinase 2) [Cleaved into: SRSF protein kinase 2 N-terminal, SRSF protein kinase 2 C-terminal],FUNCTION: Serine/arginine-rich protein-specific kinase which specifically phosphorylates its substrates at serine residues located in regions rich in arginine/serine dipeptides, known as RS domains and is involved in the phosphorylation of SR splicing factors and the regulation of splicing (PubMed:9472028, PubMed:18559500, PubMed:21056976). Promotes neuronal apoptosis by up-regulating cyclin-D1 (CCND1) expression (PubMed:19592491). This is done by the phosphorylation of SRSF2, leading to the suppression of p53/TP53 phosphorylation thereby relieving the repressive effect of p53/TP53 on cyclin-D1 (CCND1) expression (PubMed:21205200). Phosphorylates ACIN1, and redistributes it from the nuclear speckles to the nucleoplasm, resulting in cyclin A1 but not cyclin A2 up-regulation (PubMed:18559500). Plays an essential role in spliceosomal B complex formation via the phosphorylation of DDX23/PRP28 (PubMed:18425142). Probably by phosphorylating DDX23, leads to the suppression of incorrect R-loops formed during transcription, R-loops are composed of a DNA:RNA hybrid and the associated non-template single-stranded DNA (PubMed:28076779). Can mediate hepatitis B virus (HBV) core protein phosphorylation (PubMed:12134018). Plays a negative role in the regulation of HBV replication through a mechanism not involving the phosphorylation of the core protein but by reducing the packaging efficiency of the pregenomic RNA (pgRNA) without affecting the formation of the viral core particles (PubMed:16122776). {ECO:0000269|PubMed:12134018, ECO:0000269|PubMed:16122776, ECO:0000269|PubMed:18425142, ECO:0000269|PubMed:18559500, ECO:0000269|PubMed:19592491, ECO:0000269|PubMed:21056976, ECO:0000269|PubMed:21205200,

Target Details

ECO:0000269|PubMed:28076779, ECO:0000269|PubMed:9472028}.

Molecular Weight: 77.5 kDa

UniProt: [P78362](#)

Pathways: [Ribonucleoprotein Complex Subunit Organization](#)

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.

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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)