Datasheet for ABIN3131748

SRPK2 Protein (AA 1-681) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	SRPK2
Protein Characteristics:	AA 1-681
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SRPK2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSVNSEKSSS SERPEPQQKA PLVPPPPPPP PPPPLPDPAP PEPEEEILGS DDEEQEDPAD YCKGGYHPVK IGDLFNGRYH VIRKLGWGHF STVWLCWDMQ GKRFVAMKVV KSAQHYTETA LDEIKLLKCV RESDPSDPNK DMVVQLIDDF KISGMNGIHV CMVFEVLGHH LLKWIIKSNY QGLPVRCVKS IIRQVLQGLD YLHSKCKIIH TDIKPENILM CVDDAYVRRM AAEATEWQKA GAPPPSGSAV STAPQQKPIG KISKNKKKKL KKKQKRQAEL LEKRLQEIEE LEREAERKIL EENITSAEAS GEQDGEYQPE VTLKAADLED TTEEETAKDN GEVEDQEEKE DAEKENAEKD EDDVEQELAN LDPTWVESPK ANGHIENGPF SLEQQLEDEE DDEDDCANPE EYNLDEPNAE SDYTYSSSYE QFNGELPNGQ HKTSEFPTPL FSGPLEPVAC GSVISEGSPL TEQEESSPSH DRSRTVSASS TGDLPKTKTR AADLLVNPLD PRNADKIRVK IADLGNACWV HKHFTEDIQT RQYRSIEVLI GAGYSTPADI WSTACMAFEL ATGDYLFEPH SGEDYSRDED HIAHIIELLG SIPRHFALSG KYSREFFNRR GELRHITKLK PWSLFDVLVE KYGWPHEDAA QFTDFLIPML

	EMVPEKRASA GECLRHPWLN S **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. • 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®).

Product Details

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

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:9446799). 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 (By similarity). Phosphorylates ACIN1, and redistributes it from the nuclear speckles to the nucleoplasm, resulting in cyclin A1 but not cyclin A2 up-regulation (By similarity). Plays an essential role in spliceosomal B complex formation via the phosphorylation of DDX23/PRP28 (By similarity). 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 (By similarity). {ECO:0000250|UniProtKB:P78362, ECO:0000269|PubMed:19592491, ECO:0000269|PubMed:9446799}.
Molecular Weight:	76.8 kDa
UniProt:	O54781
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

Application Details

	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