

Datasheet for ABIN3095671

SRPK2 Protein (AA 140-688) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	SRPK2
Protein Characteristics:	AA 140-688
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SRPK2 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence: PNKDMVVQLI DDFKISGMNG IHVCMVFEVL GHLLKWIHK SNYQGLPVRC VKSIIRQVLQ
GLDYLSKCK IIHTDIKPEN ILMCVDDAYV RRMAAEATEW QKAGAPPPSG SAVSTAPQQK
PIGKISKNNK KKLKKKQKRQ AELLEKRLQE IEELEREAER KIIENITSA APSNDQDGEY
CPEVKLKTG LEEAAEAETA KDNGEAEDQE EKEDAEKENI EKDEDDVDQE LANIDPTWIE
SPKTNGHIEN GPFSLEQLD DEDDDEEDCP NPEEYNLDEP NAESDYTYSS SYEQFNGELP
NGRHKIPESQ FPEFSTSLFS GSLEPVACGS VLSEGSPLTE QEESPSHDR SRTVSASSTG
DLPKAKTRAA DLLVNPLDPR NADKIRVKIA DLGNACWVHK HFTEDIQTRQ YRSIEVLIGA
GYSTPADIWS TACMAFELAT GDYLFEPHSG EDYSRDEDHI AHIIELLGSI PRHFALSGKY
SREFFNRRGE LRHITKLKPW SLFDVLVEKY GWPHEAQAQ TDFLIPMLEM VPEKRASAGE
CLRHPWLNS

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Product Details

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
 - Human SRPK2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
 - 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

- Purification:
- Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target:	SRPK2
Alternative Name:	SRPK2 (SRPK2 Products)
Background:	<p>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.</p> <p>Promotes neuronal apoptosis by up-regulating cyclin-D1 (CCND1) expression. 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. Phosphorylates ACIN1, and redistributes it from the nuclear speckles to the nucleoplasm, resulting in cyclin A1 but not cyclin A2 up-regulation. Plays an essential role in spliceosomal B complex formation via the phosphorylation of DDX23/PRP28. Can mediate hepatitis B virus (HBV) core protein phosphorylation. 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. {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:21157427, ECO:0000269 PubMed:9472028}.</p>
Molecular Weight:	62.9 kDa Including tag.
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:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process