

Datasheet for ABIN3095606
SRRM1 Protein (AA 1-904) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	SRRM1
Protein Characteristics:	AA 1-904
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SRRM1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MDAGFFRGTS AEQDNRFSENK QKLLKQLKF AECLEKKVDM SKVNLEVIKP WITKRVTEIL GFEDDVVIEF IFNQLEVKNP DSKMMQINLT GFLNGKNARE FMGELWPLLL SAQENIAGIP SAFLELKKEE IKQRQIEQEK LASMKKQDED KDKRDKEEKE SSREKRERSR SPRRRKSRSP SPRRRSSPVR RERKRSHSRS PRHRTKSRSP SPAPEKKEKT PELPEPSVKV KEPSVQEATS TSDILKVPKP EPIPEPKEPS PEKNSKKEKE KEKTRPRSRS RSKSRSRTRS RSPSHTRPRR RHRSRRSYS PRRRPSPRRR PSPRRRTPPR RMPPPPRHRR SRSPVRRRRR SSASLSGSSS SSSSSRSRSP PKKPPKRTSS PPRKTRLSP SASPPRRRHR PSPPATPPPK TRHSPTPQQS NRTRKSRVSV SPGRTSGBKVT KHKGTEKRES PSPAPKPRKV ELSESEEDKG GKMAAADSVQ QRRQYRRQNQ QSSSDSGSSS SSIDERPKRS HVKNGEVGRR RRHSPSRAS PSRKRQKET SPRGRRRRSP SPPPTRRRRS PSPAPPPRRR RTPTPPRRR TPSPPPRRRS PSRRYSPI QRRYSPSPPP KRRTASPPPP PKRRASPSPP PKRRVSHSPP PKQRSSPVTK RRSPSLSSKH RKGSSPSRST REARSPQPNK RHSPSPRPRA PQTSSSPPV RRGASSSPQR RQSPSPSTRP
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IRRVSRTPPEP KKIKKAASPS PQSVRRVSSS RSVSGSPEPA AKKPPAPPSP VQSQSPSTNW
SPAVPVKKAK SPTPSPSPPR NSDQEGGGKK KKKKKDKKKH KDKKKHKKHKK HKKEKAVAAA
AAAVTPAAI AAATTTLAQE EPVAAPEPKK ETESEAEDNL DDLEKHLREK ALRSMRKAQV SPQS

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®): 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:	SRRM1
Alternative Name:	SRRM1 (SRRM1 Products)
Background:	Serine/arginine repetitive matrix protein 1 (SR-related nuclear matrix protein of 160 kDa) (SRm160) (Ser/Arg-related nuclear matrix protein),FUNCTION: Part of pre- and post-splicing multiprotein mRNP complexes. As a component of the minor spliceosome, involved in the splicing of U12-type introns in pre-mRNAs (Probable). Involved in numerous pre-mRNA processing events. Promotes constitutive and exonic splicing enhancer (ESE)-dependent splicing activation by bridging together sequence-specific (SR family proteins, SFRS4, SFRS5 and TRA2B/SFRS10) and basal snRNP (SNRP70 and SNRPA1) factors of the spliceosome. Stimulates mRNA 3'-end cleavage independently of the formation of an exon junction complex. Binds both pre-mRNA and spliced mRNA 20-25 nt upstream of exon-exon junctions. Binds RNA and DNA with low sequence specificity and has similar preference for either double- or single-stranded nucleic acid substrates. {ECO:0000269 PubMed:10339552, ECO:0000269 PubMed:10668804, ECO:0000269 PubMed:11739730, ECO:0000269 PubMed:12600940, ECO:0000269 PubMed:12944400, ECO:0000269 PubMed:9531537, ECO:0000305 PubMed:33509932}.
Molecular Weight:	102.3 kDa
UniProt:	Q8IYB3

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
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Application Details

as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment:

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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)



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