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# SRSF10 Protein (AA 1-262) (Strep Tag)



### Overview

Quantity:	1 mg
Target:	SRSF10
Protein Characteristics:	AA 1-262
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SRSF10 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

## **Product Details**

# Sequence:

MSRYLRPPNT SLFVRNVADD TRSEDLRREF GRYGPIVDVY VPLDFYTRRP RGFAYVQFED VRDAEDALHN LDRKWICGRQ IEIQFAQGDR KTPNQMKAKE GRNVYSSSRY DDYDRYRRSR SRSYERRRSR SRSFDYNYRR SYSPRNSRPT GRPRRSRSHS DNDRFKHRNR SFSRSKSNSR SRSKSQPKKE MKAKSRSRSA SHTKTRGTSK TDSKTHYKSG SRYEKESRKK EPPRSKSQSR

SQSRSRSKSR SRSWTSPKSS GH

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 posttranslational 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®):

- 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.
- 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:	SRSF10
Alternative Name:	Srsf10 (SRSF10 Products)
Background:	Serine/arginine-rich splicing factor 10 (FUS-interacting serine-arginine-rich protein 1) (Neural-
	salient serine/arginine-rich protein) (Neural-specific SR protein) (Splicing factor, arginine/serine
	rich 13A) (TLS-associated protein with Ser-Arg repeats) (TASR) (TLS-associated protein with SF
	repeats) (TLS-associated serine-arginine protein) (TLS-associated SR protein),FUNCTION:
	Splicing factor that in its dephosphorylated form acts as a general repressor of pre-mRNA
	splicing. Seems to interfere with the U1 snRNP 5'-splice recognition of SNRNP70. Required for
	splicing repression in M-phase cells and after heat shock. Also acts as a splicing factor that
	specifically promotes exon skipping during alternative splicing. Interaction with YTHDC1, a
	RNA-binding protein that recognizes and binds N6-methyladenosine (m6A)-containing RNAs,
	prevents SRSF10 from binding to its mRNA-binding sites close to m6A-containing regions,
	leading to inhibit exon skipping during alternative splicing (By similarity). May be involved in
	regulation of alternative splicing in neurons (PubMed:10583508).
	{ECO:0000250 UniProtKB:075494, ECO:0000269 PubMed:10583508}.
Molecular Weight:	31.3 kDa
UniProt:	Q9R0U0
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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	protein production are removed, leaving only the protein production machinery and the
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	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!

# **Application Details**

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)