

SRSF1 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	pre-mRNA-splicing factor SF2, P33 subunit;SFRS1;Splicing factor, arginine/serine-rich 1; SF2P33;ASF;Alternative-splicing factor 1 (ASF-1);SF2;SRSF1;Serine/arginine-rich splicing factor 1
Protein Construction:	2-248 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q07955
Molecular Weight:	43.6 kDa (predicted)
AA Sequence:	SGGGVIRGPAGNNDCRIYVGNLPPDIRTKDIEDVIFYKYGAIRDIDLKNRRGGPPFAFVEFEDPRDAEDAVYGR DGYDYDGYRLRVEFPRSGRGTGRGGGGGGGGGAPRGRYGPSSRRSENRVVVSGLPPSGSWQDLKDHMRE AGDVCYADVYRDGTGVVEFVRKEDMTYAVRKLNTKFRSHEGETAYIRVKVDGPRSPSYGRSRSRSRSRSRS RSRSNSRSRSYSPRRSRGSPRYSPRHRSRSRSRT

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Plays a role in preventing exon skipping, ensuring the accuracy of splicing and regulating alternative splicing. Interacts with other spliceosomal components, via the RS domains, to form a bridge between the 5'- and 3'-splice

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site binding components, U1 snRNP and U2AF. Can stimulate binding of U1 snRNP to a 5'-splice site-containing pre-mRNA. Binds to purine-rich RNA sequences, either the octamer, 5'-RGAAGAAC-3' (r=A or G) or the decamers, AGGACAGAGC/AGGACGAAGC. Binds preferentially to the 5'-CGAGGCG-3' motif in vitro. Three copies of the octamer constitute a powerful splicing enhancer in vitro, the ASF/SF2 splicing enhancer (ASE) which can specifically activate ASE-dependent splicing. Isoform ASF-2 and isoform ASF-3 act as splicing repressors. May function as export adapter involved in mRNA nuclear export through the TAP/NXF1 pathway.

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