重组人SRSF2蛋白

Recombinant SRSF2 protein (His tag)

目录号 Catalog Number	547171
同用名 Synonyms	Protein PR264; Splicing component, 35 kDa; Splicing factor SC35; SC-35; Splicing factor, arginine/serine-rich 2
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	Q01130
分子量 Molecular Weight	Predictes a molecular mass of 12.2 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MNHKVHHHHH HGGSSYGRPP PDVEGMTSLK VDNLTYRTSP DTLRRVFEKY GRVGDVYIPR DRYTKESRGF AFVRFHDKRD AEDAMDAMDG AVLDGRELRV QMARY
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
内毒素 Endotoxin	Not tested.
活性 Activity	Not tested.
稳定性 Stability	Samples are stable for up to twelve months from date of receipt at -70℃
蛋白构建 Protein Construction	DNA encoding 2-92 aa (Q01130) were fused with N-terminal 6His tag.

保存与运输

复溶 Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
储存 Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
运输 Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

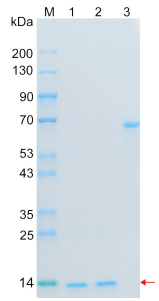
功能描述

研究背景 Background

Recombinant Human SRSF2 (2-92) Fragment - A high-purity protein fragment encompassing the essential RRM domain of Serine/arginine-rich splicing factor 2 (SC35), designed for studying pre-mRNA splicing mechanisms and RNA-binding functions in nuclear processes.
Serine/arginine-rich splicing factor 2 (SRSF2/SC35) is a crucial nuclear protein essential for pre-mRNA splicing in human cells. It plays a fundamental role in the formation of the earliest ATP-dependent splicing complex and mediates interactions between spliceosomal components bound to both 5'- and 3'-splice sites during spliceosome assembly. The protein binds to purine-rich RNA sequences and is required for ATP-dependent interactions of U1 and U2 snRNPs with pre-mRNA. SRSF2 localizes primarily to nuclear speckles, though phosphorylation by SRPK2 triggers redistribution to the nucleoplasm and is involved in cellular apoptosis responses to cisplatin treatment. The full-length protein functions as a bridging component between 5'- and 3'-splice site binding elements through its RS domains.

验证数据

SDS-PAGE



Recombinant SRSF2 protein (His tag) SDS-PAGE
M: Marker; Lane 1: SRSF2; Lane 2: SRSF2; Lane 3: BSA