Recombinant SF3B4 protein (His tag)

Catalog Number	540342
Synonyms	Pre-mRNA-splicing factor SF3b 49 kDa subunit; Spliceosome-associated protein 49; SAP 49
Species	Human
Expression System	E. coli
Accession	Q15427
Molecular Weight	Predictes a molecular mass of 23.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Amino Acid Sequence	MSKIKAAGPI SERNQDATVY VGGLDEKVSE PLLWELFLQA GPVVNTHMPK DRVTGQHQGY GFVEFLSEED ADYAIKIMNM IKLYGKPIRV NKASAHNKNL DVGANIFIGN LDPEIDEKLL YDTFSAFGVI LQTPKIMRDP DTGNSKGYAF INFASFDASD AAIEAMNGQY LCNRPITVSY AFKKDSKGER HGSAAERLLA AQNLEHHHHH H
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 2-199 aa (Q15427) were fused with C-terminal 6His tag.

Storage & Handling

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.
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.
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.

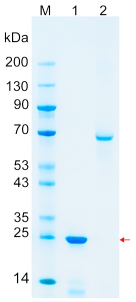
Description

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Introducing the recombinant human Splicing factor 3B subunit 4 (SF3B4) fragment (residues 2-199), a high-purity protein designed to encompass the complete RRM 1 and RRM 2 domains. This product serves as an essential tool for researchers studying spliceosome assembly, pre-mRNA branch-site recognition, and U12-type intron splicing mechanisms.
Splicing factor 3B subunit 4 (SF3B4) is a critical component of the 17S U2 SnRNP complex within the spliceosome, the large ribonucleoprotein complex responsible for intron removal from pre-mRNAs. It functions in the SF3B subcomplex to facilitate early spliceosome assembly and mediates recognition of the intron branch site by promoting selection of the branch-site adenosine—the nucleophile for the first splicing step. SF3B4 also participates in the minor spliceosome, which processes U12-type introns. The protein is localized exclusively in the nucleus, underscoring its central role in nuclear RNA processing and gene expression regulation.

Validation

SDS-PAGE



Recombinant SF3B4 protein (His tag) SDS-PAGE
M: Marker; Lane 1: SF3B4; Lane 2: BSA