

Datasheet for ABIN3136987

SF3B1 Protein (AA 1-1304) (His tag)**1** Image[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	SF3B1
Protein Characteristics:	AA 1-1304
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SF3B1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	MAKIAKTHED IEAQIREIQG KKAALDEAQG VGLDSTGYD QEYGGSDSR FAGYVTSIAA TELEDDDDDY SSSTSLLGQK KPGYHAPVAL LNDIPQSTEQ YDPFAEHRPP KIADREDEYK KHRRTMIISP ERLDPFADGG KTPDPKMNR TYMDVMREQH LTKEEREIRQ QLAEKAKAGE LKVVNGAAAS QPPSKRKRRW DQTADQTPGA TPKKLSSWDQ AETPGHTPSL RWDETPGRK GSETPGATPG SKIWDPTPSH TPAGAATPGR GDTPGHATPG HGGATSSARK NRWDETPKTE RDTPGHGSWG AETPRTRDGG DSIGETPTPG ASKRKSRWDE TPASQMGGST PVLTPGKTPI GTPAMNMATP TPGHMSMTP EQLQAWRWER EIDERNRPLS DEELDAMFPE GYKVLPPPAG YVPIRTPARK LTATPTPLGG MTGFHMQTED RTMKSVNDQP SGNLPFLKPD DIQYFDKLLV DVDESTLSPE EQKERKIMKL LLKIKNGTPP MRKAALRQIT DKAREFGAGP LFNQILPLLM SPTLEDQERH LLVKVIDRIL YKLDDLVRPY VHKILVVIEP LLIDEDYYAR VEGREISNL AKAAGLATMI STMRPDIDNM DEYVRNTTAR AFAVVASALG IPSLLPFLKA VCKSKKSWQA RHTGIKIVQQ IAILMGCAIL PHLRSLVEII EHGLVDEQQK VRTISALAIA ALAEAATPYG IESFDSVLKP
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LWKGIRQHRG KGLAAFLKAI GYLIPLMDAE YANYYTREVM LILREFQSP DEEMKKIVLK
VVKQCCGTDG VEANYIKTEI LPPFFKHFWQ HRMALDRRNY RQLVDTTVEL ANKVGAAEII
SRIVDDLKDE AEQYRKVMME TIEKIMGNLG AADIDHKLEE QLIDGILYAF QEQTTEDSVM
LNGFGTVVNA LGKRVKPYLP QICGTVLWRL NNKSAKVRQQ AADLISRTAV VMKTCQEEKL
MGHLGVVLYE YLGEEYPEVL GSILGALKAI VNVIGMHKMT PPIKDLLPRL TPILKNRHEK
VQENCIDLVG RIADRGAEYV SAREWMRICF ELLELLKAHK KAIRRATVNT FGIIAKAIGP
HDVLATLLNN LKVQERQNRV CTTVAIAIVA ETCSPFTVLP ALMNEYRVPE LNVQNGVLKS
LSFLFEYIGE MGKDIYAVT PLLEDALMDR DLVHRQTASA VVQHMSLGVY GFGCEDSLNH
LLNYVWPNVF ETSPHVIQAV MGALEGLRVA IGPCRMQLYC LQGLFHPARK VRDVYWKIYN
SIYIGSQDAL IAHPRIYND DKNTYIRYDL DYIL

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Sf3b1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three

Product Details

- different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	SF3B1
Alternative Name:	Sf3b1 (SF3B1 Products)
Background:	Subunit of the splicing factor SF3B required for 'A' complex assembly formed by the stable binding of U2 snRNP to the branchpoint sequence (BPS) in pre-mRNA. Sequence independent binding of SF3A/SF3B complex upstream of the branch site is essential, it may anchor U2 snRNP to the pre-mRNA. May also be involved in the assembly of the 'E' complex. Belongs also to the minor U12-dependent spliceosome, which is involved in the splicing of rare class of nuclear pre-mRNA intron (By similarity). {ECO:0000250}.
Molecular Weight:	146.8 kDa Including tag.
UniProt:	Q99NB9
Pathways:	Chromatin Binding

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:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



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