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Datasheet for ABIN3095132

RSF1 Protein (AA 1-1441) (Strep Tag)

Overview

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| Quantity: | 1 mg |
| Target: | RSF1 |
| Protein Characteristics: | AA 1-1441 |
| Origin: | Human |
| Source: | Tobacco (Nicotiana tabacum) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This RSF1 protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

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| Sequence: | MATAAAAAAV MAPPGCPGSC PNFAVVCSTL ERYGPLLDLP ELPFPELERV LQAPPPDVGN GEVPKELVEL HCLKMRKIGK SVTADRWEKY LIKICQEFNS TWAWEMEKKG YLEMSVECKL ALLKYLCECQ FDDNLKFKNI INEEDADTMR LQPIGRDKDG LMYWYQLDQD HNVVMYIEEQ DDQDGSSWKC IVRNRNELAE TLALLKAQID PVLLKNSSQQ DNSSRESPSL EDEETKKEEE TPKQEEQKES EKMKSEEQPM DLENRSTANV LEETTVKKEK EDEKELVKLP VIVKLEKPLP ENEEKKIIKE ESDSFKENVK PIKVEVKECR ADPKDTKSSM EKPVAQEPER IEFGGNIKSS HEITEKSTEE TEKLKNDQQA KIPLKKREIK LSDDFDSPVK GPLCKSVTPT KEFLKDEIKQ EEETCKRIST ITALGHEGKQ LVNGEVSDER VAPNFKTEPI ETKFYETKEE SYSPSKDRNI ITEGNGTESL NSVITSMKTG ELEKETAPLR KDAOSSISVL EIHSQKAQIE EPDPPPEMETS LDSSEMAKDL SSKTALSSTE SCTMKGEEKS PKTKKDKRPP ILECLEKLEK SKKTFLDKDA QRLSPIPEEV PKSTLESEKP GSPEAAETSP PSNIIDHCEK LASEKEVVEC QSTSTVGGQS VKKVDLETLK EDSEFTKVEM DNLDNAQTSG IEEPSETKGS MQSKFKYKL VPPEETTASE |
|-----------|--|

NTEITSERQK EGIKLTIRIS SRKKKPDSP KVLLENKQE KTEKEEEKTN VGRTLRRSPR
ISRPTAKVAE IRDQKADKKR GEGEDEVEEE STALQKTDKK EILKKSEKDT NSKVSVKPK
GKVRWTGSRT RGRWKYSSND ESEGSSEKS SAASEEEEEK ESEAILADD DEPCKKCGLP
NHPELILLCD SCDSGYHTAC LRPPLMIIPD GEWFPCPCQH KLLCEKLEE QLDLDVALKK
KERAERRKER LVYVGISIEN IIPPQEPDFS EDQEEKKKDS KSKANLLER RSTRTRKCIS
YRFDEFDEAI DEAIEDDIKE ADGGGVGRGK DISTITGHRG KDISTILDEE RKENKRPQRA
AAARRKKRRR LNDLDSDSNL DEEESEDEFK ISDGSQDEFV VSDENPDESE EDPPSNDDSD
TDFCSRRLRR HPSRPMRQSR RLRRKTPKKK YSDDDEEEES EENS RDSESD FSDDFSDDFV
ETRRRRSRRN QKRQINYKED SESDGSQKSL RRGKEIRRVH KRLSSSESE ESYLSKNSD
DELAKESKRS VRKRGRSTDE YSEADEEEEE EGGKPSRKRL HRIETDEEES CDNAHGDAQ
PARDSQPRVL PSEQESTKKP YRIESDEEED FENVGKVGSP LDYSLVDLPS TNGQSPGKAI
ENLIGKPTEK SQTPKDNSTA SASLASNGTS GGQEAGAPEE EDELLRVTD LVDYVCNSEQ L

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 post-translational 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

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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!

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.

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| 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. 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: | >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) |
| Grade: | Crystallography grade |

Target Details

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| Target: | RSF1 |
| Alternative Name: | RSF1 (RSF1 Products) |
| Background: | Remodeling and spacing factor 1 (Rsf-1) (HBV pX-associated protein 8) (Hepatitis B virus X-associated protein) (p325 subunit of RSF chromatin-remodeling complex),FUNCTION: Regulatory subunit of the ATP-dependent RSF-1 and RSF-5 ISWI chromatin-remodeling complexes, which form ordered nucleosome arrays on chromatin and facilitate access to DNA during DNA-templated processes such as DNA replication, transcription, and repair (PubMed:12972596, PubMed:28801535). Binds to core histones together with SMARCA5, and is required for the assembly of regular nucleosome arrays by the RSF-5 ISWI chromatin-remodeling complex (PubMed:12972596). Directly stimulates the ATPase activity of SMARCA1 and SMARCA5 in the RSF-1 and RSF-5 ISWI chromatin-remodeling complexes, respectively (PubMed:28801535). The RSF-1 ISWI chromatin remodeling complex has a lower ATP |

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hydrolysis rate than the RSF-5 ISWI chromatin-remodeling complex (PubMed:28801535). The complexes do not have the ability to slide mononucleosomes to the center of a DNA template (PubMed:28801535). Facilitates transcription of hepatitis B virus (HBV) genes by the pX transcription activator. In case of infection by HBV, together with pX, it represses TNF-alpha induced NF-kappa-B transcription activation. Represses transcription when artificially recruited to chromatin by fusion to a heterogeneous DNA binding domain (PubMed:11944984, PubMed:11788598). {ECO:0000269|PubMed:11788598, ECO:0000269|PubMed:11944984, ECO:0000269|PubMed:12972596, ECO:0000269|PubMed:28801535}.

Molecular Weight: 163.8 kDa

UniProt: [Q96T23](#)

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.

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!

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.

Handling

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| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | Unlimited (if stored properly) |