Datasheet for ABIN3134027

STAT5A Protein (AA 1-793) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	STAT5A
Protein Characteristics:	AA 1-793
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STAT5A protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MAGWIQAQQL QGDALRQMQV LYGQHFPIEV RHYLAQWIES QPWDAIDLDN PQDRGQATQL LEGLVQELQK KAEHQVGEDG FLLKIKLGHY ATQLQNTYDR CPMELVRCIR HILYNEQRLV REANNCSSPA GVLVDAMSQK HLQINQRFEE LRLITQDTEN ELKKLQQTQE YFIIQYQESL RIQAQFAQLG QLNPQERMSR ETALQQKQVS LETWLQREAQ TLQQYRVELA EKHQKTLQLL RKQQTIILDD ELIQWKRRQQ LAGNGGPPEG SLDVLQSWCE KLAEIIWQNR QQIRRAEHLC QQLPIPGPVE EMLAEVNATI TDIISALVTS TFIIEKQPPQ VLKTQTKFAA TVRLLVGGKL NVHMNPPQVK ATIISEQQAK SLLKNENTRN ECSGEILNNC CVMEYHQATG TLSAHFRNMS LKRIKRADRR GAESVTEEKF TVLFESQFSV GSNELVFQVK TLSLPVVVIV HGSQDHNATA TVLWDNAFAE PGRVPFAVPD KVLWPQLCEA LNMKFKAEVQ SNRGLTKENL VFLAQKLFNI SSNHLEDYNS MSVSWSQFNR ENLPGWNYTF WQWFDGVMEV LKKHHKPHWN DGAILGFVNK QQAHDLLINK PDGTFLLRFS DSEIGGITIA WKFDSPDRNL WNLKPFTTRD FSIRSLADRL

	GDLNYLIYVF PDRPKDEVFA KYYTPVLAKA VDGYVKPQIK QVVPEFVNAS TDAGASATYM DQAPSPVVCP QPHYNMYPPN PDPVLDQDGE FDLDESMDVA RHVEELLRRP MDSLDARLSP PAGLFTSARS SLS **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 in one-step affinity chromatography • 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 try to ensure that you receive soluble 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 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 against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

Product Details

	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	STAT5A
Alternative Name:	Stat5a (STAT5A Products)
Background:	Signal transducer and activator of transcription 5A (Mammary gland factor),FUNCTION: Carries out a dual function: signal transduction and activation of transcription. Mediates cellular responses to the cytokine KITLG/SCF and other growth factors. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Binds to the GAS element and activates PRL-induced transcription. Regulates the expression of milk proteins during lactation. {ECO:0000269|PubMed:10508857, ECO:0000269|PubMed:16837552, ECO:0000269|PubMed:7720707}.
Molecular Weight:	90.8 kDa
UniProt:	P42230
Pathways:	JAK-STAT Signaling, RTK Signaling, Response to Growth Hormone Stimulus, C21-Steroid Hormone Metabolic Process, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, CXCR4-mediated Signaling Events, Activated T Cell Proliferation

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

Application Details

	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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months