Datasheet for ABIN3135650

SH3RF1 Protein (AA 1-892) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SH3RF1
Protein Characteristics:	AA 1-892
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH3RF1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MDESALLDLL ECPVCLERLD ASAKVLPCQH TFCKRCLLGI VGSRNELRCP ECRTLVGSGV DELPSNILLV RLLDGIKQRP WKPGPGGGGG TTCTNTLRAQ GSTVVNCGSK DLQSSQCGQQ PRVQAWSPPV RGIPQLPCAK ALYNYEGKEP GDLKFSKGDI IILRRQVDEN WYHGEVSGVH GFFPTNFVQI IKPLPQPPPQ CKALYDFEVK DKEADKDCLP FAKDDVLTVI RRVDENWAEG MLADKIGIFP ISYVEFNSAA KQLIEWDKPP VPGVDTAECP SATAQSTSAS KHPDTKKNTR KRHSFTSLTM ANKSSQGSQN RHSMEISPPV LISSSNPTAA ARISELSGLS CSAPSQVHIS TTGLIVTPPP SSPVTTGPAF TFPSDVPYQA ALGSMNPPLP PPPLLAATVL ASTPSGATAA VAAAAAAAAA AGMGPRPVMG SSEQIAHLRP QTRPSVYVAI YPYTPRKEDE LELRKGEMFL VFERCQDGWY KGTSMHTSKI GVFPGNYVAP VTRAVTNASQ AKVSMSTAGQ ASRGVTMVSP STAGGPTQKP QGNGVAGNPS VVPTAVVSAA HIQTSPQAKV LLHMSGQMTV NQARNAVRTV AAHSQERPTA AVTPIQVQNA ACLGPASVGL PHHSLASQPL PPMAGPAAHG AAVSISRTNA

PMACAAGASL ASPNMTSAML ETEPSGRTVT ILPGLPTSPE SAASACGNSS AGKPDKDSKK EKKGLLKLLS GASTKRKPRV SPPASPTLDV ELGAGEAPLQ GAVGPELPLG GSHGRVGSCP TDGDGPVAAG TAALAQDAFH RKTSSLDSAV PIAPPPRQAC SSLGPVMNEA RPVVCERHRV VVSYPPQSEA ELELKEGDIV FVHKKREDGW FKGTLQRNGK TGLFPGSFVE NI

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.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	SH3RF1
Alternative Name:	Sh3rf1 (SH3RF1 Products)
Background:	E3 ubiquitin-protein ligase SH3RF1 (EC 2.3.2.27) (Plenty of SH3s) (Protein POSH) (RING-type E3 ubiquitin transferase SH3RF1) (SH3 domain-containing RING finger protein 1) (SH3 multiple domains protein 2),FUNCTION: Has E3 ubiquitin-protein ligase activity. In the absence of an external substrate, it can catalyze self-ubiquitination. Stimulates ubiquitination of potassium channel KCNJ1, enhancing its dynamin-dependent and clathrin-independent endocytosis (By similarity). Acts as a scaffold protein that coordinates with MAPK8IP1/JIP1 in organizing different components of the JNK pathway, including RAC1 or RAC2, MAP3K11/MLK3 or MAP3K7/TAK1, MAP2K7/MKK7, MAPK8/JNK1 and/or MAPK9/JNK2 into a functional multiprotein complex to ensure the effective activation of the JNK signaling pathway. Regulates the differentiation of CD4(+) and CD8(+) T-cells and promotes T-helper 1 (Th1) cell differentiation. Regulates the activation of MAPK8/JNK1 and MAPK9/JNK2 in CD4(+) T-cells and the activation of MAPK8/JNK1 in CD8(+) T-cells (PubMed:23963642, PubMed:27084103, PubMed:9482736). Plays a crucial role in the migration of neocortical neurons in the developing brain. Controls proper cortical neuronal migration and the formation of proximal cytoplasmic dilation in the leading process (PCDLP) in migratory neocortical neurons by regulating the proper localization of activated RAC1 and F-actin assembly (PubMed:22959435). {ECO:0000250|UniProtKB:Q7Z6J0, ECO:0000269|PubMed:22959435, ECO:0000269|PubMed:23963642, ECO:0000269|PubMed:27084103, ECO:0000269|PubMed:9482736}.
Molecular Weight:	93.4 kDa
UniProt:	Q69ZI1

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

Application Details

	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. 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