Datasheet for ABIN3095382

SH3RF1 Protein (AA 1-888) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	SH3RF1
Protein Characteristics:	AA 1-888
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH3RF1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MDESALLDLL ECPVCLERLD ASAKVLPCQH TFCKRCLLGI VGSRNELRCP ECRTLVGSGV EELPSNILLV RLLDGIKQRP WKPGPGGGSG TNCTNALRSQ SSTVANCSSK DLQSSQGGQQ PRVQSWSPPV RGIPQLPCAK ALYNYEGKEP GDLKFSKGDI IILRRQVDEN WYHGEVNGIH GFFPTNFVQI IKPLPQPPPQ CKALYDFEVK DKEADKDCLP FAKDDVLTVI RRVDENWAEG MLADKIGIFP ISYVEFNSAA KQLIEWDKPP VPGVDAGECS SAAAQSSTAP KHSDTKKNTK KRHSFTSLTM ANKSSQASQN RHSMEISPPV LISSSNPTAA ARISELSGLS CSAPSQVHIS TTGLIVTPPP SSPVTTGPSF TFPSDVPYQA ALGTLNPPLP PPPLLAATVL ASTPPGATAA AAAAGMGPRP MAGSTDQIAH LRPQTRPSVY VAIYPYTPRK EDELELRKGE MFLVFERCQD GWFKGTSMHT SKIGVFPGNY VAPVTRAVTN ASQAKVPMST AGQTSRGVTM VSPSTAGGPA QKLQGNGVAG SPSVVPAAVV SAAHIQTSPQ AKVLLHMTGQ MTVNQARNAV RTVAAHNQER PTAAVTPIQV QNAAGLSPAS VGLSHHSLAS PQPAPLMPGS ATHTAAISIS RASAPLACAA AAPLTSPSIT SASLEAEPSG RIVTVLPGLP TSPDSASSAC GNSSATKPDK DSKKEKKGLL

	KLLSGASTKR KPRVSPPASP TLEVELGSAE LPLQGAVGPE LPPGGGHGRA GSCPVDGDGP VTTAVAGAAL AQDAFHRKAS SLDSAVPIAP PPRQACSSLG PVLNESRPVV CERHRVVVSY PPQSEAELEL KEGDIVFVHK KREDGWFKGT LQRNGKTGLF PGSFVENI **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. • Human SH3RF1 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 receival 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 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

Product Details

Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	SH3RF1
Alternative Name:	SH3RF1 (SH3RF1 Products)
Background:	Acts as a scaffold protein, contributes to Rac-induced signal transduction such as JNKs (MAPK8 and MAPK9) activation and induces apoptosis. Within a signaling complex, it probably recruits protein kinases such as MAP3K10 or MAP3K11 which are in turn activated leading to the sequential activation of MAP2K4, MAP2K7 and JNKs (MAPK8 and MAPK9) (By similarity). May be involved in targeting of HIV-1 GAG and GAG-POL polyproteins to the plasma membrane. {ECO:0000250, ECO:0000269|PubMed:15659549, ECO:0000269|PubMed:19710010}., Might act as an E3 ubiquitin-protein ligase, or as part of E3 complex, which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes such as UBE2D1 or UBE2N and then transfers it to substrates. In the absence of an external substrate, it can catalyze self-ubiquitination. Stimulates ubiquitination of potassium channel KCNJ1, enhancing it's dynamin-dependent and clathrin-independent endocytosis., Plays an essential role in the targeting of HIV-1 Gag to the plasma membrane, this function is dependent on it's RING domain, and hence it's E3 ligase activity.
Molecular Weight:	94.1 kDa Including tag.
UniProt:	Q7Z6J0

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 gurantee though.
Comment:	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