

Datasheet for ABIN3095795

Synaptojanin 1 Protein (SYNJ1) (AA 1-1573) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	Synaptojanin 1 (SYNJ1)
Protein Characteristics:	AA 1-1573
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Synaptojanin 1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MAFSKGFRIY HKLDPPPFSL IVETRHKEEC LMFESGAVAV LSSAEKEAIK GTYSKVLDAY GLLGVLRLNL GDTMLHYLVL VTGCM SVGKI QESEVFRVTS TEFISLRIDS SDEDRISEVR KVLNSGNFYF AWSASGISLD LSLNAHRSMQ EQTTDNRF FW NQSLHLHLKH YGVNCDDWLL RLMCGGVEIR TIYAAHKQAK ACLISRLSCE RAGTRFNVRG TNDDGHVANF VETEQVVYLD DSVSSFIQIR GSVPLFWEQP GLQVGSHRVR MSRGFEANAP AFDRHFRTLK NLYGKQIIVN LLGSKEGEHM LSKAFQSHLK ASEHAADIQM VNFDYHQMVK GGKAEKLHSV LKPQVQKFLD YGFFYFNGSE VQRCQSGTVR TNCLDCLDRT NSVQAFLGLE MlakQLEALG LAEKPLVTR FQEVFRSMWS VNGDSISKIY AGTGALEGKA KLKDGARSVT RTIQNNFFDS SKQE AIDVLL LGNTLNSDLA DKARALLTTG SLRVSEQLTQ SASSKVLKSM CENFYKYSKP KKIRVCVGTW NVNGGKQFRS IAFKNQTLTD WLLDAPKLAG IQEFQDKRSK PTDIFAIGFE EMVELNAGNI VSASTTNQKL WAVE LQKTIS RDNKYVLLAS EQLVGVCLFV FIRPQHAPFI RDVAVDTVKT GMGGATGNKG AVAIRMLFHT TSLCFVCSHF AAGQSQVKER NEDFIEIARK LSFPMGRMLF
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SHDYVFWCGD FNYRIDLPNE EVKELIRQQN WDSLIAGDQL INQKNAGQVF RGFLEGKVTF
APTYKYDLFS DDYDTSEKCR TPAWTDRLVW RRRKWPFDRS AEDLDLLNAS FQDESKILYT
WTPGTLLHYG RAEKTSDDR PVVALIDIDI FEVEAEERQN IYKEVIAVQG PPDGTVLVS
KSSLPENFF DDALIDELLQ QFASFGEVIL IRFVEDKMWV TFLEGSSALN VLSLNGKELL
NRTITIALKS PDWIKNLEEE MSLEKISIAL PSSTSSTLLG EDAEVAADF MEGDVDDYSA
EVEELLPQHL QPSSSSGLGT SPSSSPRTSP CQSPTISEGP VPSLPIRPSR APSRTPGPPS
AQSSPIDAQP ATPLPQKDP QPLEPKRPPP PRPVAPPTRP APPQRPPPPS GARSPAPTRK
EFGGIGAPPS PGVARREMEA PKSPGTTRKD NIGRSQPSPQ AGLAGPGPAG YSTARPTIPP
RAGVISAPQS HARASAGRLT PESQSKTSET SKGSTFLPEP LKPQAAFPQ SSLPPPAQRL
QEPLVPVAA MPQSGPQPNL ETPPQPPRS RSSHSLPSEA SSQPQVKTN ISDGKRESPL
KIDPFEDLSF NLLAVSKAQL SVQTSPVPTP DPKRLIQLPS ATQSNVLSSV SCMPTMPPIP
ARSQSQENMR SSPNPFITGL TRTNPFSDRT AAPGNPFRAK SEESEATSWF SKEEPTISP
FPSLQPLGHN KSRASSLDG FKDSFDLQGG STLKISNPKG WVTFFFFEEDF GVKGKSKSAC
SDLLGNQPSS FSGSNLTLND DWNKGTVNSF CVLPSRRPPP PPVLLPPGT SPPVDPFTTL
ASKASPTLDF TER

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-

Product Details

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 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.

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

Target:	Synaptojanin 1 (SYNJ1)
Alternative Name:	SYNJ1 (SYNJ1 Products)
Background:	Synaptojanin-1 (EC 3.1.3.36) (Synaptic inositol 1,4,5-trisphosphate 5-phosphatase 1),FUNCTION: Phosphatase that acts on various phosphoinositides, including phosphatidylinositol 4-phosphate, phosphatidylinositol (4,5)-bisphosphate and phosphatidylinositol (3,4,5)-trisphosphate (PubMed:27435091, PubMed:23804563). Has a role in clathrin-mediated endocytosis (By similarity). Hydrolyzes PIP2 bound to actin regulatory proteins resulting in the rearrangement of actin filaments downstream of tyrosine kinase and ASH/GRB2 (By similarity). {ECO:0000250 UniProtKB:O18964, ECO:0000250 UniProtKB:Q62910,

Target Details

	ECO:0000269 PubMed:23804563, ECO:0000269 PubMed:27435091}.
Molecular Weight:	173.1 kDa
UniProt:	O43426
Pathways:	Inositol Metabolic Process , Synaptic Vesicle Exocytosis

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



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