Datasheet for ABIN3136467

Synaptojanin 1 Protein (SYNJ1) (AA 1-1574) (Strep Tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	Synaptojanin 1 (SYNJ1)
Protein Characteristics:	AA 1-1574
Origin:	Mouse
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 GTYAKVLDAY GLLGVLRLNL GDTMLHYLVL VTGCMSVGKI QESEVFRVTS TEFISLRVDA SDEDRISEVR KVLNSGNFYF AWSASGVSLD LSLNAHRSMQ EHTTDNRFFW NQSLHLHLKH YGVNCDDWLL RLMCGGVEIR TIYAAHKQAK ACLISRLSCE RAGTRFNVRG TNDDGHVANF VETEQVIYLD DCVSSFIQIR GSVPLFWEQP GLQVGSHRVR MSRGFEANAP AFDRHFRTLK DLYGKQIVVN LLGSKEGEHM LSKAFQSHLK ASEHASDIHM VSFDYHQMVK GGKAEKLHSI LKPQVQKFLD YGFFYFDGSE VQRCQSGTVR TNCLDCLDRT NSVQAFLGLE MLAKQLEALG LAEKPQLVTR FQEVFRSMWS VNGDSISKIY AGTGALEGKA KLKDGARSVT RTIQNNFFDS SKQEAIDVLL LGNTLNSDLA DKARALLTTG SLRVSEQTLQ SASSKVLKNM CENFYKYSKP KKIRVCVGTW NVNGGKQFRS IAFKNQTLTD WLLDAPKLAG IQEFQDKRSK PTDIFAIGFE EMVELNAGNI VNASTTNQKL WAVELQKTIS RDNKYVLLAS EQLVGVCLFV FIRPQHAPFI RDVAVDTVKT GMGGATGNKG AVAIRMLFHT TSLCFVCSHF AAGQSQVKER NEDFVEIARK LSFPMGRMLF

SHDYVFWCGD FNYRIDLPNE EVKELIRQQN WDSLIAGDQL INQKNAGQIF RGFLEGKVTF APTYKYDLFS EDYDTSEKCR TPAWTDRVLW RRRKWPFDRS AEDLDLLNAS FQDESKILYT WTPGTLLHYG RAELKTSDHR PVVALIDIDI FEVEAEERQK IYKEVIAVQG PPDGTVLVSI KSSAQESTFF DDALIDELLR QFAHFGEVIL IRFVEDKMWV TFLEGSSALN ALSLNGKELL NRTITITLKS PDWIKHLEEE MSLEKISVTL PSSASSTLLG EDAEVAADFD MEGDVDDYSA EVEELLPQHL QPSSSSGLGT SPSSSPRTSP CQSPTVPEYS APSLPIRPSR APSRTPGPPS SQGSPVDTQP AAQKDSSQTL EPKRPPPPRP VAPPARPAPP QRPPPPSGAR SPAPARKEFG GVGAPPSPGV ARREIEAPKS PGTARKDNIG RNQPSPQAGL AGPGPAGYGA ARPTIPARAG VISAPQSQAR VCAGRPTPDS QSKPSETLKG PAVLPEPLKP QAAFPQQPSL PTPAQKLQDP LVPIAAPTMP PSGPQPNLET PPQPPPRSRS SQSLPSDSSP QLQQEQPTGQ VKINGISGVK QEPTLKSDPF EDLSLSVLAV SKAQPSVQIS PVLTPDPKML IQLPSASQSQ VNPLSSVSCM PTRPPGPEES KSQESMGSSA NPFPSLPCRN PFTDRTAAPG NPFRVQSQES EATSWLSKEE PVPNSPFPPL MPLSHDTSKA SSSLGGFEDN FDLQSQSTVK TSNPKGWVTF DEDDNFPTTG KSKSVCPDLV GNAPASFDDD WSKGASVSFC VLPARRPPPP PPPVPLLPPG TTSSAGPSTT LPSKAPSTLD FTER

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)

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 (By similarity). 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}.
Molecular Weight:	172.6 kDa

Target Details

UniProt:	Q8CHC4
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:	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.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

