Datasheet for ABIN3137078

Synaptojanin 2 Protein (SYNJ2) (AA 1-1434) (Strep Tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	Synaptojanin 2 (SYNJ2)
Protein Characteristics:	AA 1-1434
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Synaptojanin 2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MALSKGLRLL ARLDPTGPSS VLLEARGRGD CLLFEAGAVA TLAPEEKEVI KGLYSKLTDA YGCLGELRLQ SGGVPLSFLV LVTGCMSVGR IPDAEIYKIT ATELYPLQEE AKEEDRLPTL KKILSSGVFY FAWPNDGACF DLTIRAQKQG DDGSEWGTSF FWNQLLHVPL RQHQVNCHNW LLKVICGVVT IRTVYASHKQ AKACLISRIS CERAGARFLT RGVNDDGHVS NFVETEQTIY MDDGVSSFVQ IRGSVPLFWE QPGLQVGSHH LRLHRGLEAN APAFERHMVL LKEQYGKQVV VNLLGSRGGE EVLNRAFKKL LWASCHAGDT PMINFDFHQF AKGRKLEKLE NLLRPQLQLH WEDFGVFAKG ENVSPRFQKG TLRMNCLDCL DRTNTVQCFI ALEVLHLQLE SLGLNSKPII DRFVESFKAM WSLNGHSLSK VFTGSRALEG KAKVGKLKDG ARSMSRTIQS NFFDGVKQEA IKLLLVGDVY NEESTDKGRM LLDNTALLAT PRILKAMTER QSEFTNFKRI QIAVGTWNVN GGKQFRSNLL GTAELTDWLL DAPQLSGAVD SQDDGSPADV FAIGFEEMVE LSAGNIVNAS TTNRKMWGEQ LQKAISRSHR YILLTSAQLV GVCLYIFVRP YHVPFIRDVA IDTVKTGMGG KAGNKGAVGI RFQLHSTSFC FVCSHLTAGQ SQVKERNEDY REITHKLSFP SGRNIFSHDY

VFWCGDFNYR IDLTYEEVFY FVKRQDWKKL MEFDQLQLQK SSGKIFKDFH EGAVNFGPTY KYDVGSAAYD TSDKCRTPAW TDRVLWWRKK HPYDKTAGEL NLLDSDLDGD PQIRHTWSPG TLKYYGRAEL QASDHRPVLA IVEVEVQEVD VGARERVFQE VSSVQGPLDA TVVVNLQSPT LEEKNEFPED LRTELMQTLG NYGTIILVRI NQGQMLVTFA DSHSALSVLD VDGMKVKGRA VKIRPKTKDW LEGLREELLR KRDSMAPVSP TANSCLLEEN FDFSSLDYES EGDVLEEDED YLVDGFGQPV VSDSELGGDN SSDTMSSLTP ASKSPALAKK KQHPTYKAGL MVKKSASDAS ISSGTHGQYS ILQTAKLLPG APQQPPKART GISKPYNVKQ IKTTNAQEAE AAIRCLLEAS GGVPESAPGA IPLRNQGSSK PEATLGPPAL PRRPAPRVPT MKKPTLRRTG KPMLPEENFE PQPVHFTMAS QEMNLETPPP ITATPIPPVP KPRTLQPGKG VEGRPSSGKP EPDEAPSVTG TVESPPPEAQ EAPSLAPKVP PRRKKSAPAA FHLQVLQNNS QVLQGLTCSS SSPPSLKPDT HPLCLQVALG TSSARSPETH GPRVTEPEAA SFHGNYPDPF WSLLHHPKLL NNTWLSKSSE PLDVGSRNPE RTHTEPAQVN ASLAERGLPP DHGGKDLSHW VTASNKDKRT TLGV

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-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

Product Details

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 2 (SYNJ2)
Alternative Name:	Synj2 (SYNJ2 Products)
Background:	Synaptojanin-2 (EC 3.1.3.36) (Synaptic inositol 1,4,5-trisphosphate 5-phosphatase 2),FUNCTION: Inositol 5-phosphatase which may be involved in distinct membrane trafficking and signal transduction pathways. May mediate the inhibitory effect of Rac1 on endocytosis (By similarity). {ECO:0000250, ECO:0000269|PubMed:9442075}.
Molecular Weight:	158.5 kDa
UniProt:	Q9D2G5
Pathways:	Inositol Metabolic Process

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

Application Details

	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)