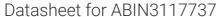
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ESYT1 Protein (AA 1-1104) (Strep Tag)





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Overview

Quantity:	1 mg
Target:	ESYT1
Protein Characteristics:	AA 1-1104
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ESYT1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:

MERSPGEGPS PSPMDQPSAP SDPTDQPPAA HAKPDPGSGG QPAGPGAAGE ALAVLTSFGR RLLVLIPVYL AGAVGLSVGF VLFGLALYLG WRRVRDEKER SLRAARQLLD DEEQLTAKTL YMSHRELPAW VSFPDVEKAE WLNKIVAQVW PFLGQYMEKL LAETVAPAVR GSNPHLQTFT FTRVELGEKP LRIIGVKVHP GQRKEQILLD LNISYVGDVQ IDVEVKKYFC KAGVKGMQLH GVLRVILEPL IGDLPFVGAV SMFFIRRPTL DINWTGMTNL LDIPGLSSLS DTMIMDSIAA FLVLPNRLLV PLVPDLQDVA QLRSPLPRGI IRIHLLAARG LSSKDKYVKG LIEGKSDPYA LVRLGTQTFC SRVIDEELNP QWGETYEVMV HEVPGQEIEV EVFDKDPDKD DFLGRMKLDV GKVLQASVLD DWFPLQGGQG QVHLRLEWLS LLSDAEKLEQ VLQWNWGVSS RPDPPSAAIL VVYLDRAQDL PLKKGNKEPN PMVQLSIQDV TQESKAVYST NCPVWEEAFR FFLQDPQSQE LDVQVKDDSR ALTLGALTLP LARLLTAPEL ILDQWFQLSS SGPNSRLYMK LVMRILYLDS SEICFPTVPG CPGAWDVDSE NPQRGSSVDA PPRPCHTTPD SQFGTEHVLR IHVLEAQDLI AKDRFLGGLV KGKSDPYVKL KLAGRSFRSH VVREDLNPRW NEVFEVIVTS VPGQELEVEV

FDKDLDKDDF LGRCKVRLTT VLNSGFLDEW LTLEDVPSGR LHLRLERLTP RPTAAELEEV LQVNSLIQTQ KSAELAAALL SIYMERAEDL PLRKGTKHLS PYATLTVGDS SHKTKTISQT SAPVWDESAS FLIRKPHTES LELQVRGEGT GVLGSLSLPL SELLVADQLC LDRWFTLSSG QGQVLLRAQL GILVSQHSGV EAHSHSYSHS SSSLSEEPEL SGGPPHITSS APELRQRLTH VDSPLEAPAG PLGQVKLTLW YYSEERKLVS IVHGCRSLRQ NGRDPPDPYV SLLLLPDKNR GTKRRTSQKK RTLSPEFNER FEWELPLDEA QRRKLDVSVK SNSSFMSRER ELLGKVQLDL AETDLSOGVA RWYDLMDNKD KGSS

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 posttranslational 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.
- 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

E0\/T1

Target Details

Target:	ESYT1
Alternative Name:	ESYT1 (ESYT1 Products)
Background:	Extended synaptotagmin-1 (E-Syt1) (Membrane-bound C2 domain-containing
	protein),FUNCTION: Binds glycerophospholipids in a barrel-like domain and may play a role in
	cellular lipid transport (By similarity). Binds calcium (via the C2 domains) and translocates to
	sites of contact between the endoplasmic reticulum and the cell membrane in response to
	increased cytosolic calcium levels. Helps tether the endoplasmic reticulum to the cell
	membrane and promotes the formation of appositions between the endoplasmic reticulum and
	the cell membrane. {ECO:0000250, ECO:0000269 PubMed:23791178,
	ECO:0000269 PubMed:24183667}.
Molecular Weight:	122.9 kDa
UniProt:	Q9BSJ8

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

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	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)



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