

Datasheet for ABIN3117737

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



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Overview

Quantity:	250 µg
Target:	ESYT1
Protein Characteristics:	AA 1-1104
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ESYT1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MERSPGEGPS PSPMDQPSAP SDPTDQPPAA HAKPDPGSGG QPAGPGAAGE ALAVLTSFGR</p> <p>RLLVLIPVYL AGAVGLSVGF VLFGLALYLG WRRVRDEKER SLRAARQLLD DEEQLTAKTL</p> <p>YMSHRELPWA VSFPDVEKAE WLNKIVAQVW PFLGQYMEKL LAETVAPAVR GSNPHLQTFT</p> <p>FTRVELGEKP LRIIGVKVHP GQRKEQILLD LNISYVGDVQ IDVEVKKYFC KAGVKGMQLH</p> <p>GVLRVILEPL IGDLPFVGAV SMFFIRRPRL DINWTGMTNL LDIPGLSSLS DTMIMDSIAA</p> <p>FLVLPNRLLV PLVPDLQDVA QLRSPRLPRGI IRIHLLAARG LSSKDKYVKG LIEGKSDPYA</p> <p>LVRLGTQTFC SRVIDEELNP QWGETYEVMM HEVPGQEIEV EVFDKDPDKD DFLGRMKLDV</p> <p>GKVLQASVLD DWFPLQGGQG QVHLRLEWLS LLSDAEKLEQ VLQWNWGVSS RPDPPSAAIL</p> <p>VVYLDRAQDL PLKKGNKEPN PMVQLSIQDV TQESKAVYST NCPVWEEAFR FFLQDPQSQE</p> <p>LDVQVKDDSR ALTLGALTLP LARLLTAPEL ILDQWFQLSS SGPNSRLYMK LVMRILYLDL</p> <p>SEICFPTVPG CPGAWDVDSE NPQRGSSVDA PPRPCHTTPD SQFGTEHVLR IHVLEAQDLI</p>

AKDRFLGGLV KGKSDPYVKL KLAGRSFRSH VVREDLNPRW NEVFVIVTS VPGQELEVEV
FDKDLKDDF LGRCKVRLTT VLNSGFLDEW LTLEDVPSGR LHLRLRLTP RPTAAELEEVE
LQVNSLIQTQ KSAELAAALL SIYMERAE DL PLRKGTKHLS PYATLTVGDS SHKTKTISQT
SAPVWDESAS FLIRKPHTES LELQVRGEGT GVLGSLSLPL SELLVADQLC LDRWFTLSSG
QGQVLLRAQL GILVSQHSGV EAHSHSYSHS SSSLSEEPEL SGGPPHITSS APELRQLRTH
VDSPLEAPAG PLGQVKLTW YYSEERKLVS IVHGCRSLRQ NGRDPPDPYV SLLLLPDKNR
GTKRRTSQKK RTLSPEFNER FEWELPLDEA QRRKLDVSVK SNSSFMSRER ELLGKVQLDL
AETDLSQGVA RWYDLMDNKG 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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 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:

Product Details

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

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 guarantee though.

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Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months