

Datasheet for ABIN3118059

SYT4 Protein (AA 1-425) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	SYT4
Protein Characteristics:	AA 1-425
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYT4 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MAPITTSREE FDEIPTVVGI FSAFGLVFTV SLFAWICCQR KSSKSNKTPP YKFBVHVLKGV DIYPENLNSK KKGAGDDKNE VKNKPAVPKN SLHLDLEKRD LNGNFPKTNL KPGSPSDLEN ATPKLFLEGE KESVSPESLK SSTSLTSEEK QEKLGTFFS LEYNFERKAF VVNIKEARGL PAMDEQSMST DPYIKMTILP EKKHKVKTRV LRKTLDPAFD ETFTFYGIPY TQIQELALHF TILSFDRFSR DDIIGEVLIP LSGIELSEGK MLMNREIIKR NVRKSSGRGE LLISLCYQST TNTLTVVVLK ARHLPKSDVS GLSDPYVKVN LYHAKKRISK KKTHVKKCTP NAVFNELFVF DIPCEGLEDI SVEFLVLDSE RGSRNEVIGQ LVLGAAAEGT GGEHWKEICD YPRRQIAKWH VLCDG</p> <p>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.</p>
Characteristics:	Key Benefits:

Product Details

- 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:

- 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:	SYT4
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Target Details

Alternative Name:	SYT4 (SYT4 Products)
Background:	Synaptotagmin-4 (Synaptotagmin IV) (SytIV),FUNCTION: Synaptotagmin family member which does not bind Ca(2+) (PubMed:23999003) (By similarity). Involved in neuronal dense core vesicles (DCVs) mobility through its interaction with KIF1A. Upon increased neuronal activity, phosphorylation by MAPK8/JNK1 destabilizes the interaction with KIF1A and captures DCVs to synapses (By similarity). Plays a role in dendrite formation by melanocytes (PubMed:23999003). {ECO:0000250 UniProtKB:P50232, ECO:0000269 PubMed:23999003}.
Molecular Weight:	48.0 kDa
UniProt:	Q9H2B2
Pathways:	Synaptic Membrane , 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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months