

Datasheet for ABIN3096327

Syndetin/VPS50 Protein (AA 1-964) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	Syndetin/VPS50 (CCDC132)
Protein Characteristics:	AA 1-964
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Syndetin/VPS50 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MQKIKSLMTR QGLKSPQESL SDLGAIESLR VPGKEEFREL REQSPDPQAE QELINSIEQV</p> <p>YFSVDSFDIV KYELEKLPPV LNLQELEAYR DKLKQQQAAV SKKVADLILE KQPAYVKELE</p> <p>RVTSLQTGLQ LAAVICTNGR RHLNIAKEGF TQASLGLLAN QRKRQLLIGL LKSLRTIKTL</p> <p>QRTDVRLESEM LEEEDYPGAI QLCLECQKAA STFKHYSCIS ELNSKLQDTL EQIEEQLDVA</p> <p>LSKICKNFDI NHYTKVQQAY RLLGKTQTAM DQLHMHFTA IHNTVFQVVL GYVELCAGNT</p> <p>DTKFQKLQYK DLCTHVTPDS YIPCLADLCK ALWEVMLSYY RTMEWHEKHD NEDTASASEG</p> <p>SNMIGTEETN FDRGYIKKKL EHGLTRIWQD VQLKVKTYLL GTDLSIFKYD DFIFVLDIIS</p> <p>RLMQVGEEFC GSKSEVLQES IRKQSVNYFK NYHRTRLDEL RMFLENETWE LCPVKSNFSI</p> <p>LQLHEFKFME QSRSPSVSPS KQPVSTSSKT VTLFEQYCSG GNPFEIQANH KDEETEDVLA</p> <p>SNGYESDEQE KSAYQEYDSD SDVPEELKRD YVDEQTDGDP VKSVSRETLL SRKKSDYSLN</p> <p>KVNAPILTNT TLNVIRLVGK YMQMMNILKP IAFDVIHFMS QLFDYLYLAI YTFFGRNDSL</p>

ESTGLGLSSS RLRTTLNRIQ ESLIDLEVSA DPTATLTAAE ERKEKVSPSPH LSHLVVLTSG
DTLYGLAERV VATESLVFLA EQFEFLQPHL DAVMPAVKKP FLQQFYSQTV STASELRKPI
YWIVAGKALD YEQMLLLMAN VKWDVKEIMS QHNIYVDALL KEFEQFNRRRL NEVSKRVRI
LPVSNILWEH CIRLANRTIV EGYANVKKCS NEGRALMQLD FQQFLMKLEK LTDIRPIPK
EFVETIKAY YLTENDMERW IKEHREYSTK QLTNLVNVCL GSHINKKARQ KLLAAIDDD RPKR

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:

- 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.

Product Details

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:	Syndetin/VPS50 (CCDC132)
Alternative Name:	VPS50 (CCDC132 Products)
Background:	<p>Syndetin (Coiled-coil domain-containing protein 132) (EARP/GARP-II complex subunit VPS50), FUNCTION: Acts as a component of the EARP complex that is involved in endocytic recycling. The EARP complex associates with Rab4-positive endosomes and promotes recycling of internalized transferrin receptor (TFRC) to the plasma membrane. Within the EARP complex, required to tether the complex to recycling endosomes. Not involved in retrograde transport from early and late endosomes to the trans-Golgi network (TGN).</p> <p>{ECO:0000269 PubMed:25799061}.</p>
Molecular Weight:	111.2 kDa
UniProt:	Q96JG6

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</p>

Application Details

	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. 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