

Datasheet for ABIN3096247

VAV3 Protein (AA 1-847) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	VAV3
Protein Characteristics:	AA 1-847
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This VAV3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MEPWKQCAQW LIHCKVLPTN HRVTWDSAQV FDLAQTLRDG VLLCQLLNNL RAHSINLKEI</p> <p>NLRPQMSQFL CLKNIRTFIT ACCETFGMRK SELF EAFDLF DVRDFGKVE TLSRLSRTPI</p> <p>ALATGIRPPF TEESINDEDI YKGLPDLIDE TLVEDEEDLY DCVYGEDEGG EYEDLMKAE</p> <p>EAHQPKCPEN DIRSCCLAEI KQTEEKYTET LESIEKYFMA PLKRFLTAAE FDSVFINIPE</p> <p>LVKLHRNLMQ EIHDSIVNKN DQNLVQVFIN YKERLVIYGQ YCSGVESAIS SLDYISKTKE</p> <p>DVKLKLEECs KRANNGKFTL RDLLVVPMPQ VLKYHLLLQE LVKHTTDPTE KANLKLALDA</p> <p>MKDLAQYVNE VKRDNETLRE IKQFQLSIEN LNQPVLFFGR PQGDGEIRIT TLDKHTKQER</p> <p>HIFLFDLAVI VCKRKGDNYE MKEIIDLQQY KIANNPTTDK ENKKWSYGFY LIHTQGQNGL</p> <p>EFYCKTKDLK KKWLEQFEMA LSNIRPDYAD SNFHDFKMHT FTRVTSCKVC QMLLRGTFYQ</p> <p>GYLCFKCGAR AHKECLGRVD NCGRVNSGEQ GTLKLPEKRT NGLRRTPKQV DPGLPKMQVI</p> <p>RNYSGTPPPA LHEGPPLQLQ AGDTVELLKG DAHSLFWQGR NLASGEVGFF PSDAVKPCPC</p>

VPKPYDYSCQ PWYAGAMERL QAETELINRV NSTYLVHRHT KESGEYAISI KYNNEAKHIK
ILTRDGGFFHI AENRKFKSLM ELVEYYKHHS LKEGFRTLDT TLQFPYKEPE HSAGQQRGNRA
GNSLLSPKVL GIAIARYDFC ARDMRELSLL KGDVVKIYTK MSANGWWRGE VNGRVGWFPS
TYVEEDE

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: VAV3

Alternative Name: VAV3 ([VAV3 Products](#))

Background: Guanine nucleotide exchange factor VAV3 (VAV-3),FUNCTION: Exchange factor for GTP-binding proteins RhoA, RhoG and, to a lesser extent, Rac1. Binds physically to the nucleotide-free states of those GTPases. Plays an important role in angiogenesis. Its recruitment by phosphorylated EPHA2 is critical for EFNA1-induced RAC1 GTPase activation and vascular endothelial cell migration and assembly (By similarity). May be important for integrin-mediated signaling, at least in some cell types. In osteoclasts, along with SYK tyrosine kinase, required for signaling through integrin alpha-v/beta-1 (ITAGV-ITGB1), a crucial event for osteoclast proper cytoskeleton organization and function. This signaling pathway involves RAC1, but not RHO, activation. Necessary for proper wound healing. In the course of wound healing, required for the phagocytotic cup formation preceding macrophage phagocytosis of apoptotic neutrophils. Responsible for integrin beta-2 (ITGB2)-mediated macrophage adhesion and, to a lesser extent, contributes to beta-3 (ITGB3)-mediated adhesion. Does not affect integrin beta-1 (ITGB1)-mediated adhesion (By similarity). {ECO:0000250}.

Molecular Weight: 97.8 kDa

UniProt: [Q9UKW4](#)

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#)

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: 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

Application Details

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. 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