

Datasheet for ABIN3096301

Vcpip1 Protein (AA 1-1222) (Strep Tag)



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	Vcpip1
Protein Characteristics:	AA 1-1222
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Vcpip1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MSQPPPPPPP LPPPPPPPEA PQTSSLASA AASGGLLKRR DRRILSGSCP DPKCQARLFF PASGSVSIEC TECGQRHEQQ QLLGVEEVD PDVVLHNLLR NALLGVTGAP KKNTLVKVM GLSNYHCKLL SPILARYGMD KQTGRAKLLR DMNQGELFDC ALLGDRAFLI EPEHVNTVGY GKDRSGSLLY LHDTLEDIKR ANKSQECLIP VHVDGDGHCL VHAVSRALVG RELFWHALRE NLKQHFQQL ARYQALFHDF IDAAEWEDII NECDPLFVPP EGVPLGLRNI HIFGLANVLH RPIILLDSLS GMRSSGDYSA TFLPGLIPAE KCTGKDGHLN KPICIAWSSS GRNHYIPLVG IKGAALPKLP MNLLPKAWGV PQDLIKKYIK LEEDGGCVIG GDRSLQDKYL LRLVAAMEEV FMDKHGIHPS LVADVHQYFY RRTGVIGVQP EEVTAAAKKA VMDNRLHKCL LCGALSELHV PPEWLAPGGK LYNLAKSTHG QLRTDKNYSF PLNNLVCSYD SVKDVLPDY GMSNLTACNW CHGTSVRKVR GDGSIVYLDG DRTNSRSTGG KCGCGFKHFW DGKEYDNLPE AFPITLWGG RVVRETVYWF QYESDSSLNS NVYDVAMKLV TKHFPGFEFGS EILVQKVVHT ILHQTAKKNP DDYTPVNIIDG AHAQRVGDVQ QGESESQLPT KIILTGQKTK TLHKEELNMS KTERTIQQNI</p>
-----------	---

TEQASVMQKR KTEKLNKQEQK GQPRTVSPST IRDGPSSAPA TPTKAPYSPT TSKEKKIRIT
TNDGRQSMVT LKSSTTFFEL QESIAREFNI PPLYQCIRYG FPPKELMPPQ AGMEKEPVPL
QHGDRTIEI LKSKAEGGQS AAAHSAHTVK QEDIAVTGKL SSKELQEQAE KEMYSLCLLA
TLMGEDVWSY AKGLPHMFQQ GGVFYSIMKK TMGMADGKHC TFPHLPGKTF VYNASEDRLE
LCVDAAGHFP IGPDVEDLVK EAVSQVRAEA TTRSRESSPS HGLLKLGGSGG VVKKKSEQLH
NVTAFQGGKH SLGTASGNPH LDPRARETSV VRKHNTGTDF SNSSTKTEPS VFTASSNSE
LIRIAPGVVT MRDGRQLDPD LVEAQRKLLQ EMVSSIQASM DRHLRDQSTE QSPSDLPQRK
TEVSSSAKS GSLQTGLPES FPLTGGTENL NTETTDGCVA DALGAAFATR SKAQRGNSVE
ELEEMDSQDA EMTNTTEPMD HS

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 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!

Product Details

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.
2. 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

Target Details

Target:

Vcpip1

Alternative Name:

VCPIP1 ([Vcpip1 Products](#))

Background:

Deubiquitinating protein VCPIP1 (EC 3.4.19.12) (Valosin-containing protein p97/p47 complex-interacting protein 1) (Valosin-containing protein p97/p47 complex-interacting protein p135) (VCP/p47 complex-interacting 135- kDa protein),FUNCTION: Deubiquitinating enzyme involved in DNA repair and reassembly of the Golgi apparatus and the endoplasmic reticulum following mitosis (PubMed:32649882). Necessary for VCP-mediated reassembly of Golgi stacks after mitosis (By similarity). Plays a role in VCP-mediated formation of transitional endoplasmic reticulum (tER) (By similarity). Mediates dissociation of the ternary complex containing STX5A, NSFL1C and VCP (By similarity). Also involved in DNA repair following phosphorylation by ATM or ATR: acts by catalyzing deubiquitination of SPRTN, thereby promoting SPRTN recruitment to chromatin and subsequent proteolytic cleavage of covalent DNA-protein cross-links (DPCs) (PubMed:32649882). Hydrolyzes 'Lys-11'- and 'Lys-48'-linked polyubiquitin chains (PubMed:23827681). {ECO:0000250|UniProtKB:Q8CF97, ECO:0000269|PubMed:23827681, ECO:0000269|PubMed:32649882}., FUNCTION: (Microbial infection) Regulates the duration of

Target Details

C.botulinum neurotoxin type A (BoNT/A) intoxication by catalyzing deubiquitination of Botulinum neurotoxin A light chain (LC), thereby preventing LC degradation by the proteasome, and accelerating botulinum neurotoxin intoxication in patients.
{ECO:0000269|PubMed:28584101}.

Molecular Weight: 134.3 kDa

UniProt: [Q96JH7](#)

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 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