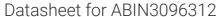
antibodies .- online.com





VPS4B Protein (AA 1-444) (His tag)





Go to Product page

Overview

Quantity:	1 mg
Target:	VPS4B (vps4b)
Protein Characteristics:	AA 1-444
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This VPS4B protein is labelled with His tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence:

MSSTSPNLQK AIDLASKAAQ EDKAGNYEEA LQLYQHAVQY FLHVVKYEAQ GDKAKQSIRA KCTEYLDRAE KLKEYLKNKE KKAQKPVKEG QPSPADEKGN DSDGEGESDD PEKKKLQNQL QGAIVIERPN VKWSDVAGLE GAKEALKEAV ILPIKFPHLF TGKRTPWRGI LLFGPPGTGK SYLAKAVATE ANNSTFFSIS SSDLVSKWLG ESEKLVKNLF QLARENKPSI IFIDEIDSLC GSRSENESEA ARRIKTEFLV QMQGVGVDND GILVLGATNI PWVLDSAIRR RFEKRIYIPL PEPHARAAMF KLHLGTTQNS LTEADFRELG RKTDGYSGAD ISIIVRDALM QPVRKVQSAT HFKKVRGPSR ADPNHLVDDL LTPCSPGDPG AIEMTWMDVP GDKLLEPVVS MSDMLRSLSN TKPTVNEHDL LKLKKFTEDF GQEG

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- · Human VPS4B Protein (raised in E. Coli) purified by multi-step, protein-specific process to

ensure crystallization grade.

· 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. 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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in bacterial culture:

- In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 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:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

Target Details

Target: VPS4B (vps4b)

Alternative Name: VPS4B (vps4b Products)

Target Details

9	
Background:	Involved in late steps of the endosomal multivesicular bodies (MVB) pathway. Recognizes
	membrane-associated ESCRT-III assemblies and catalyzes their disassembly, possibly in
	combination with membrane fission. Redistributes the ESCRT-III components to the cytoplasm
	for further rounds of MVB sorting. MVBs contain intraluminal vesicles (ILVs) that are generated
	by invagination and scission from the limiting membrane of the endosome and mostly are
	delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth
	factor receptors, lysosomal enzymes and lipids. In conjunction with the ESCRT machinery also
	appears to function in topologically equivalent membrane fission events, such as the terminal
	stages of cytokinesis and enveloped virus budding (HIV-1 and other lentiviruses). VPS4A/B are
	required for the exosomal release of SDCBP, CD63 and syndecan (PubMed:22660413).
	{ECO:0000269 PubMed:11563910, ECO:0000269 PubMed:14505570,
	ECO:0000269 PubMed:18687924, ECO:0000269 PubMed:22660413}.
Molecular Weight:	50.3 kDa Including tag.
UniProt:	075351
Pathways:	Microtubule Dynamics, CXCR4-mediated Signaling Events
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 gurantee
	though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to
	increase solubility. We will discuss all possible options with you in detail to assure that you
	receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Expiry Date:

Unlimited (if stored properly)

Images

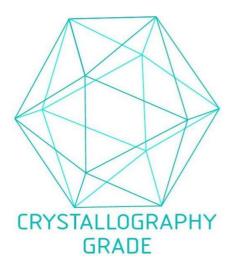


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process