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Datasheet for ABIN3075432

# VTA1 Protein (AA 2-307) (His tag)



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Quantity:	1 mg
Target:	VTA1
Protein Characteristics:	AA 2-307
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VTA1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), ELISA, Crystallization (Crys), Western Blotting (WB)

#### **Product Details**

## Sequence:

AALAPLPPLP AQFKSIQHHL RTAQEHDKRD PVVAYYCRLY AMQTGMKIDS KTPECRKFLS KLMDQLEALK KQLGDNEAIT QEIVGCAHLE NYALKMFLYA DNEDRAGRFH KNMIKSFYTA SLLIDVITVF GELTDENVKH RKYARWKATY IHNCLKNGET PQAGPVGIEE DNDIEENEDA GAASLPTQPT QPSSSSTYDP SNMPSGNYTG IQIPPGAHAP ANTPAEVPHS TGVASNTIQP TPQTIPAIDP ALFNTISQGD VRLTPEDFAR AQKYCKYAGS ALQYEDVSTA VQNLQKALKL LTTGRE 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 VTA1 Protein (raised in Insect Cells) 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 baculovirus infected SF9 insect cells:

- 1. 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:

Protein is endotoxin free.

Grade:

Crystallography grade

#### Target Details

Target:	VTA1	
Alternative Name:	VTA1 (VTA1 Products)	
Background:	Involved in the endosomal multivesicular bodies (MVB) pathway. MVBs contain intraluminal	
	vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of	

# **Target Details**

the endosome and mostly are delivered to lysosomes enabling degradation of membrane		
proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. Thought		
to be a cofactor of VPS4A/B, which catalyzes disassembles membrane-associated ESCRT-III		
assemblies. Involved in the sorting and down-regulation of EGFR (By similarity). Involved in HIV		
1 budding. {ECO:0000250, ECO:0000269 PubMed:15644320}.		

### Molecular Weight:

34.7 kDa Including tag.

UniProt:

Q9NP79

# **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:

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)