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VPS51 Protein (AA 2-782) (His tag)





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Overview

Quantity:	1 mg
Target:	VPS51
Protein Characteristics:	AA 2-782
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VPS51 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

AAAAAAGPSP GSGPGDSPEG PEGEAPERRR KAHGMLKLYY GLSEGEAAGR PAGPDPLDPT DLNGAHFDPE VYLDKLRREC PLAQLMDSET DMVRQIRALD SDMQTLVYEN YNKFISATDT IRKMKNDFRK MEDEMDRLAT NMAVITDFSA RISATLQDRH ERITKLAGVH ALLRKLQFLF ELPSRLTKCV ELGAYGQAVR YQGRAQAVLQ QYQHLPSFRA IQDDCQVITA RLAQQLRQRF REGGSGAPEQ AECVELLLAL GEPAEELCEE FLAHARGRLE KELRNLEAEL GPSPPAPDVL EFTDHGGSGF VGGLCQVAAA YQELFAAQGP AGAEKLAAFA RQLGSRYFAL VERRLAQEQG GGDNSLLVRA LDRFHRRLRA PGALLAAAGL ADAATEIVER VARERLGHHL QGLRAAFLGC LTDVRQALAA PRVAGKEGPG LAELLANVAS SILSHIKASL AAVHLFTAKE VSFSNKPYFR GEFCSQGVRE GLIVGFVHSM CQTAQSFCDS PGEKGGATPP ALLLLLSRLC LDYETATISY ILTLTDEQFL VQDQFPVTPV STLCAEARET ARRLLTHYVK VQGLVISQML RKSVETRDWL STLEPRNVRA VMKRVVEDTT AIDVQVGLLY EEGVRKAQSS DSSKRTFSVY SSSRQQGRYA PSYTPSAPMD TNLLSNIQKL FSERIDVFSP VEFNKVSVLT GIIKISLKTL LECVRLRTFG

RFGLQQVQVD CHFLQLYLWR FVADEELVHL LLDEVVASAA LRCPDPVPME PSVVEVICER G

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 VPS51 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.

Product Details	
Grade:	Crystallography grade
Target Details	
Target:	VPS51
Alternative Name:	VPS51 (VPS51 Products)
Background: Molecular Weight:	Acts as component of the GARP complex that is involved in retrograde transport from early and late endosomes to the trans-Golgi network (TGN). The GARP complex is required for the maintenance of protein retrieval from endosomes to the TGN, acid hydrolase sorting, lysosome function, endosomal cholesterol traffic and autophagy. VPS51 participates in retrograde transport of acid hydrolase receptors, likely by promoting tethering and SNARE-dependent fusion of endosome-derived carriers to the TGN (PubMed:20685960). Acts as 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 (PubMed:25799061). {ECO:0000269 PubMed:20685960, ECO:0000269 PubMed:25799061}.
UniProt:	Q9UID3
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.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

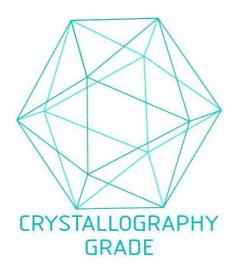


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process