Datasheet for ABIN7555998

VPS16 Protein (AA 1-839) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	VPS16
Protein Characteristics:	AA 1-839
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VPS16 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant VPS16 Protein expressed in mammalian cells.
Sequence:	MDCYTANWNP LGDSAFYRKY ELYSMDWDLK EELRDCLVAA APYGGPIALL RNPWRKEKAA SVRPVLDIYS ASGMPLASLL WKSGPVVSLG WSAEEELLCV QEDGAVLVYG LHGDFRRHFS MGNEVLQNRV LDARIFHTEF GSGVAILTGA HRFTLSANVG DLKLRRMPEV PGLQSAPSCW TVLCQDRVAH ILLAVGPDLY LLDHAACSAV TPPGLAPGVS SFLQMAVSFT YRHLALFTDT GYIWMGTASL KEKLCEFNCN IRAPPKQMVW CSRPRSKERA VVVAWERRLM VVGDAPESIQ FVLDEDSYLV PELDGVRIFS RSTHEFLHEV PAASEEIFKI ASMAPGALLL EAQKEYEKES QKADEYLREI QELGQLTQAV QQCIEAAGHE HQPDMQKSLL RAASFGKCFL DRFPPDSFVH MCQDLRVLNA VRDYHIGIPL TYSQYKQLTI QVLLDRLVLR RLYPLAIQIC EYLRLPEVQG VSRILAHWAC YKVQQKDVSD EDVARAINQK LGDTPGVSYS DIAARAYGCG RTELAIKLLE YEPRSGEQVP LLLKMKRSKL ALSKAIESGD TDLVFTVLLH LKNELNRGDF FMTLRNQPMA LSLYRQFCKH QELETLKDLY NQDDNHQELG SFHIRASYAA EERIEGRVAA LQTAADAFYK AKNEFAAKAT EDQMRLLRLQ RRLEDELGGQ FLDLSLHDTV TTLILGGHNK RAEQLARDFR

Product Details

	IPDKRLWWLK LTALADLEDW EELEKFSKSK KSPIGYLPFV EICMKQHNKY EAKKYASRVG PEQKVKALLL VGDVAQAADV AIEHRNEAEL SLVLSHCTGA TDGATADKIQ RARAQAQKK **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	VPS16
Alternative Name:	VPS16 (VPS16 Products)
Background:	Vacuolar protein sorting-associated protein 16 homolog (hVPS16),FUNCTION: Plays a role in vesicle-mediated protein trafficking to lysosomal compartments including the endocytic membrane transport and autophagic pathways. Believed to act as a core component of the putative HOPS and CORVET endosomal tethering complexes which are proposed to be involved in the Rab5-to-Rab7 endosome conversion probably implicating MON1A/B, and via binding SNAREs and SNARE complexes to mediate tethering and docking events during SNARE-

Target Details

	mediated membrane fusion. The HOPS complex is proposed to be recruited to Rab7 on the late endosomal membrane and to regulate late endocytic, phagocytic and autophagic traffic towards lysosomes. The CORVET complex is proposed to function as a Rab5 effector to mediate early endosome fusion probably in specific endosome subpopulations (PubMed:11382755, PubMed:23351085, PubMed:24554770, PubMed:25266290, PubMed:25783203). Required for recruitment of VPS33A to the HOPS complex (PubMed:23901104). Required for fusion of endosomes and autophagosomes with lysosomes, the function is dependent on its association with VPS33A but not VPS33B (PubMed:25783203). The function in autophagosome-lysosome fusion implicates STX17 but not UVRAG (PubMed:24554770). {ECO:0000269|PubMed:23901104, ECO:0000269|PubMed:24554770, ECO:0000269|PubMed:25783203, ECO:0000305|PubMed:11382755, ECO:0000305|PubMed:23351085, ECO:0000305|PubMed:25266290, ECO:0000305|PubMed:25783203}.
Molecular Weight:	94.7 kDa
UniProt:	Q9H269

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months

