Datasheet for ABIN7545043

ATP6V1A Protein (AA 1-617) (His tag)

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Overview

Quantity:	1 mg
Target:	ATP6V1A
Protein Characteristics:	AA 1-617
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP6V1A protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ATP6V1A Protein expressed in mammalian cells.
Sequence:	MDFSKLPKIL DEDKESTFGY VHGVSGPVVT ACDMAGAAMY ELVRVGHSEL VGEIIRLEGD MATIQVYEET SGVSVGDPVL RTGKPLSVEL GPGIMGAIFD GIQRPLSDIS SQTQSIYIPR GVNVSALSRD IKWDFTPCKN LRVGSHITGG DIYGIVSENS LIKHKIMLPP RNRGTVTYIA PPGNYDTSDV VLELEFEGVK EKFTMVQVWP VRQVRPVTEK LPANHPLLTG QRVLDALFPC VQGGTTAIPG AFGCGKTVIS QSLSKYSNSD VIIYVGCGER GNEMSEVLRD FPELTMEVDG KVESIMKRTA LVANTSNMPV AAREASIYTG ITLSEYFRDM GYHVSMMADS TSRWAEALRE ISGRLAEMPA DSGYPAYLGA RLASFYERAG RVKCLGNPER EGSVSIVGAV SPPGGDFSDP VTSATLGIVQ VFWGLDKKLA QRKHFPSVNW LISYSKYMRA LDEYYDKHFT EFVPLRTKAK EILQEEEDLA EIVQLVGKAS LAETDKITLE VAKLIKDDFL QQNGYTPYDR FCPFYKTVGM LSNMIAFYDM ARRAVETTAQ SDNKITWSII REHMGDILYK LSSMKFKDPL KDGEAKIKSD YAQLLEDMQN AFRSLED **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make**

Product Details

	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:	ATP6V1A
Alternative Name:	ATP6V1A (ATP6V1A Products)
Background:	V-type proton ATPase catalytic subunit A (V-ATPase subunit A) (EC 7.1.2.2) (V-ATPase 69 kDa subunit) (Vacuolar ATPase isoform VA68) (Vacuolar proton pump subunit alpha),FUNCTION: Catalytic subunit of the V1 complex of vacuolar(H+)-ATPase (V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex (V0) that translocates protons (PubMed:8463241). V-ATPase is responsible for acidifying and maintaining the pH of intracellular compartments and in some cell types, is targeted to the plasma membrane, where it is responsible for acidifying the extracellular environment (PubMed:32001091). In aerobic conditions, involved in intracellular iron homeostasis, thus triggering the activity of Fe(2+) prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and subsequent proteasomal degradation (PubMed:28296633).

Target Details

	May play a role in neurite development and synaptic connectivity (PubMed:29668857). {ECO:0000250|UniProtKB:P50516, ECO:0000269|PubMed:28296633, ECO:0000269|PubMed:29668857, ECO:0000269|PubMed:8463241, ECO:0000303|PubMed:32001091}., FUNCTION: (Microbial infection) Plays an important role in virion uncoating during Rabies virus replication after membrane fusion. Specifically, participates in the dissociation of incoming viral matrix M proteins uncoating through direct interaction. {ECO:0000269|PubMed:33208464}.
Molecular Weight:	68.3 kDa
UniProt:	P38606
Pathways:	Transition Metal Ion Homeostasis, Proton Transport, SARS-CoV-2 Protein Interactome

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