Datasheet for ABIN7545065

ATP6V1B1 Protein (AA 1-513) (His tag)

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Overview

Quantity:	1 mg
Target:	ATP6V1B1
Protein Characteristics:	AA 1-513
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP6V1B1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ATP6V1B1 Protein expressed in mammalian cells.
Sequence:	MAMEIDSRPG GLPGSSCNLG AAREHMQAVT RNYITHPRVT YRTVCSVNGP LVVLDRVKFA QYAEIVHFTL PDGTQRSGQV LEVAGTKAIV QVFEGTSGID ARKTTCEFTG DILRTPVSED MLGRVFNGSG KPIDKGPVVM AEDFLDINGQ PINPHSRIYP EEMIQTGISP IDVMNSIARG QKIPIFSAAG LPHNEIAAQI CRQAGLVKKS KAVLDYHDDN FAIVFAAMGV NMETARFFKS DFEQNGTMGN VCLFLNLAND PTIERIITPR LALTTAEFLA YQCEKHVLVI LTDMSSYAEA LREVSAAREE VPGRRGFPGY MYTDLATIYE RAGRVEGRGG SITQIPILTM PNDDITHPIP DLTGFITEGQ IYVDRQLHNR QIYPPINVLP SLSRLMKSAI GEGMTRKDHG DVSNQLYACY AIGKDVQAMK AVVGEEALTS EDLLYLEFLQ KFEKNFINQG PYENRSVFES LDLGWKLLRI FPKEMLKRIP QAVIDEFYSR EGALQDLAPD TAL **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.**

Product Details

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:	ATP6V1B1
Alternative Name:	ATP6V1B1 (ATP6V1B1 Products)
Background:	V-type proton ATPase subunit B, kidney isoform (V-ATPase subunit B 1) (Endomembrane proton pump 58 kDa subunit) (Vacuolar proton pump subunit B 1),FUNCTION: Non-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:16769747). 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). Essential for the proper assembly and activity of V-ATPase (PubMed:16769747). In renal intercalated cells, mediates secretion of protons (H+) into the urine thereby ensuring correct urinary acidification (PubMed:16769747). Required for optimal olfactory function by mediating the acidification of the nasal olfactory epithelium (By similarity).

Target Details

	{ECO:0000250|UniProtKB:Q91YH6, ECO:0000269|PubMed:16769747, ECO:0000303|PubMed:32001091}.
Molecular Weight:	56.8 kDa
UniProt:	P15313
Pathways:	Sensory Perception of Sound, Transition Metal Ion Homeostasis, Proton Transport

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

