

Datasheet for ABIN7552156 ANO1 Protein (AA 1-986) (His tag)



Overview

Quantity:	1 mg
Target:	AN01
Protein Characteristics:	AA 1-986
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANO1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ANO1 Protein expressed in mammalian cells.
Sequence:	MRVNEKYSTL PAEDRSVHII NICAIEDIGY LPSEGTLLNS LSVDPDAECK YGLYFRDGRR
	KVDYILVYHH KRPSGNRTLV RRVQHSDTPS GARSVKQDHP LPGKGASLDA GSGEPPMDYH
	EDDKRFRREE YEGNLLEAGL ELERDEDTKI HGVGFVKIHA PWNVLCREAE FLKLKMPTKK
	MYHINETRGL LKKINSVLQK ITDPIQPKVA EHRPQTMKRL SYPFSREKQH LFDLSDKDSF
	FDSKTRSTIV YEILKRTTCT KAKYSMGITS LLANGVYAAA YPLHDGDYNG ENVEFNDRKL
	LYEEWARYGV FYKYQPIDLV RKYFGEKIGL YFAWLGVYTQ MLIPASIVGI IVFLYGCATM
	DENIPSMEMC DQRHNITMCP LCDKTCSYWK MSSACATARA SHLFDNPATV FFSVFMALWA
	ATFMEHWKRK QMRLNYRWDL TGFEEEEAV KDHPRAEYEA RVLEKSLKKE SRNKEKRRHI
	PEESTNKWKQ RVKTAMAGVK LTDKVKLTWR DRFPAYLTNL VSIIFMIAVT FAIVLGVIIY
	RISMAAALAM NSSPSVRSNI RVTVTATAVI INLVVIILLD EVYGCIARWL TKIEVPKTEK
	SFEERLIFKA FLLKFVNSYT PIFYVAFFKG RFVGRPGDYV YIFRSFRMEE CAPGGCLMEL
	CIQLSIIMLG KQLIQNNLFE IGIPKMKKLI RYLKLKQQSP PDHEECVKRK QRYEVDYNLE

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	PFAGLTPEYM EMIIQFGFVT LFVASFPLAP LFALLNNIIE IRLDAKKFVT ELRRPVAVRA
	KDIGIWYNIL RGIGKLAVII NAFVISFTSD FIPRLVYLYM YSKNGTMHGF VNHTLSSFNV
	SDFQNGTAPN DPLDLGYEVQ ICRYKDYREP PWSENKYDIS KDFWAVLAAR LAFVIVFQNL
	VMFMSDFVDW VIPDIPKDIS QQIHKEKVLM VELFMREEQD KQQLLETWME KERQKDEPPC
	NHHNTKACPD SLGSPAPSHA YHGGVL 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:	ANO1
Alternative Name:	ANO1 (ANO1 Products)
Background:	Anoctamin-1 (Discovered on gastrointestinal stromal tumors protein 1) (Oral cancer
	overexpressed protein 2) (Transmembrane protein 16A) (Tumor-amplified and overexpressed sequence 2),FUNCTION: Calcium-activated chloride channel (CaCC) (PubMed:20056604,
	PubMed:22178883, PubMed:22946059, PubMed:32487539). Plays a role in transepithelial

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN7552156 | 03/28/2025 | Copyright antibodies-online. All rights reserved. anion transport and smooth muscle contraction. Required for the normal functioning of the interstitial cells of Cajal (ICCs) which generate electrical pacemaker activity in gastrointestinal smooth muscles. Acts as a major contributor to basal and stimulated chloride conductance in airway epithelial cells and plays an important role in tracheal cartilage development. Required for CFTR activation by enhancing endoplasmic reticulum Ca(2+) store release and is also required for CFTR membrane expression (PubMed:28963502). Required for basal and ATPdependent mucus secretion in airways and intestine, probably by controlling exocytosis of mucus-filled granules by providing Ca(2+) to an apical signaling compartment (By similarity). Contributes to airway mucus expression induced by interleukins IL3 and IL8 and by the asthmaassociated protein CLCA1 and is required for expression of mucin MUC5AC (PubMed:33026825). However, was shown in another study not to be required for MUC5AC expression (PubMed:31732694). Plays a role in the propagation of Ca(2+) waves in Kolliker's organ in the cochlea and contributes to the refinement of auditory brainstem circuitries prior to hearing onset (By similarity). In vomeronasal sensory neurons, modulates spontaneous firing patterns in the absence of stimuli as well as the firing pattern of pheromone-evoked activity (By similarity). Responsible for calcium-activated chloride channel activity in type I taste cells of the vallate papillae (By similarity). Acts as a heat sensor in nociceptive neurons (By similarity). In dorsal root ganglion neurons, plays a role in mediating non-histaminergic Mas-related G-protein coupled receptor (MRGPR)-dependent itching, acting as a downstream effector of MRGPRs (By similarity). In the developing brain, required for the Ca(2+)-dependent process extension of radial glial cells (By similarity). {ECO:0000250|UniProtKB:Q8BHY3, ECO:0000269|PubMed:20056604, ECO:0000269|PubMed:22178883, ECO:0000269|PubMed:22946059, ECO:0000269|PubMed:28963502, ECO:0000269|PubMed:31732694, ECO:0000269|PubMed:32487539, ECO:0000269[PubMed:33026825]., FUNCTION: [Isoform 4]: Calcium-activated chloride channel (CaCC). Contributes to calcium-activated chloride secretion in human sweat gland epithelial cells. Shows increased basal chloride permeability and decreased Ca(2+)-induced chloride permeability. {ECO:0000269|PubMed:25220078}., FUNCTION: [Isoform 5]: Calcium-activated chloride channel (CaCC). Shows increased sensitivity to intracellular Ca(2+). {ECO:0000269|PubMed:26359375}.

Molecular Weight:	114.1 kDa
UniProt:	Q5XXA6

Application Details

Application Notes:

We expect the protein to work for functional studies. As the protein has not been tested for

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Application Details

	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