Datasheet for ABIN7563018

CFTR Protein (AA 1-1476) (His tag)

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Overview

Quantity:	1 mg
Target:	CFTR
Protein Characteristics:	AA 1-1476
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CFTR protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Cftr Protein expressed in mammalien cells.
Sequence:	MQKSPLEKAS FISKLFFSWT TPILRKGYRH HLELSDIYQA PSADSADHLS EKLEREWDRE QASKKNPQLI HALRRCFFWR FLFYGILLYL GEVTKAVQPV LLGRIIASYD PENKVERSIA IYLGIGLCLL FIVRTLLLHP AIFGLHRIGM QMRTAMFSLI YKKTLKLSSR VLDKISIGQL VSLLSNNLNK FDEGLALAHF IWIAPLQVTL LMGLLWDLLQ FSAFCGLGLL IILVIFQAIL GKMMVKYRDQ RAAKINERLV ITSEIIDNIY SVKAYCWESA MEKMIENLRE VELKMTRKAA YMRFFTSSAF FFSGFFVVFL SVLPYTVING IVLRKIFTTI SFCIVLRMSV TRQFPTAVQI WYDSFGMIRK IQDFLQKQEY KVLEYNLMTT GIIMENVTAF WEEGFGELLE KVQQSNGDRK HSSDENNVSF SHLCLVGNPV LKNINLNIEK GEMLAITGST GSGKTSLLML ILGELEASEG IIKHSGRVSF CSQFSWIMPG TIKENIIFGV SYDEYRYKSV VKACQLQQDI TKFAEQDNTV LGEGGVTLSG GQRARISLAR AVYKDADLYL LDSPFGYLDV FTEEQVFESC VCKLMANKTR ILVTSKMEHL RKADKILILH QGSSYFYGTF SELQSLRPDF SSKLMGYDTF DQFTEERRSS

	ILTETLRRFS VDDSSAPWSK PKQSFRQTGE VGEKRKNSIL NSFSSVRKIS IVQKTPLCID GESDDLQEKR LSLVPDSEQG EAALPRSNMI ATGPTFPGRR RQSVLDLMTF TPNSGSSNLQ RTRTSIRKIS LVPQISLNEV DVYSRRLSQD STLNITEEIN EEDLKECFLD DVIKIPPVTT WNTYLRYFTL HKGLLLVLIW CVLVFLVEVA ASLFVLWLLK NNPVNSGNNG TKISNSSYVV IITSTSFYYI FYIYVGVADT LLALSLFRGL PLVHTLITAS KILHRKMLHS ILHAPMSTIS KLKAGGILNR FSKDIAILDD FLPLTIFDFI QLVFIVIGAI IVVSALQPYI FLATVPGLVV FILLRAYFLH TAQQLKQLES EGRSPIFTHL VTSLKGLWTL RAFRRQTYFE TLFHKALNLH TANWFMYLAT LRWFQMRIDM IFVLFFIVVT FISILTTGEG EGTAGIILTL AMNIMSTLQW AVNSSIDTDS LMRSVSRVFK FIDIQTEESM YTQIIKELPR EGSSDVLVIK NEHVKKSDIW PSGGEMVVKD LTVKYMDDGN AVLENISFSI SPGQRVGLLG RTGSGKSTLL SAFLRMLNIK GDIEIDGVSW NSVTLQEWRK AFGVITQKVF IFSGTFRQNL DPNGKWKDEE IWKVADEVGL KSVIEQFPGQ LNFTLVDGGY VLSHGHKQLM CLARSVLSKA KIILLDEPSA HLDPITYQVI RRVLKQAFAG CTVILCEHRI EAMLDCQRFL VIEESNVWQY DSLQALLSEK SIFQQAISSS EKMRFFQGRH SSKHKPRTQI TALKEETEEE VQETRL **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.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	CFTR
Alternative Name:	Cftr (CFTR Products)
Background:	Cystic fibrosis transmembrane conductance regulator (CFTR) (ATP-binding cassette sub-family C member 7) (Channel conductance-controlling ATPase) (EC 5.6.1.6) (cAMP-dependent chloride channel),FUNCTION: Epithelial ion channel that plays an important role in the regulation of epithelial ion and water transport and fluid homeostasis (PubMed:26823428). Mediates the transport of chloride ions across the cell membrane (PubMed:20231442, PubMed:22265409). Channel activity is coupled to ATP hydrolysis. The ion channel is also permeable to HCO(3)(-), selectivity depends on the extracellular chloride concentration. Exerts its function also by modulating the activity of other ion channels and transporters. Contributes to the regulation of the pH and the ion content of the epithelial fluid layer. Modulates the activity of the epithelial sodium channel (ENaC) complex, in part by regulating the cell surface expression of the ENaC complex. May regulate bicarbonate secretion and salvage in epithelial cells by regulating the transporter SLC4A7. Can inhibit the chloride channel activity of ANO1 (By similarity). Plays a role in the chloride and bicarbonate homeostasis during sperm epididymal maturation and capacitation (PubMed:21976599). {ECO:0000250|UniProtKB:P13569, ECO:0000269|PubMed:19033647, ECO:0000269|PubMed:20231442, ECO:0000269|PubMed:21976599, ECO:0000269|PubMed:22265409, ECO:0000269|PubMed:26823428}.
Molecular Weight:	167.9 kDa
UniProt:	P26361

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 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.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months