Datasheet for ABIN7564600

SLC26A6 Protein (AA 1-758) (His tag)

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Overview

Quantity:	1 mg
Target:	SLC26A6
Protein Characteristics:	AA 1-758
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC26A6 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Slc26a6 Protein expressed in mammalian cells.
Sequence:	MGLPDGSDQG THQTQALLSA AQEMELQRRD YHVERPLLNQ EQLEDLGHWG PAAKTHQWRT WFRCSRARAH SLLLQHVPVL GWLPRYPVRE WLLGDLLSGL SVAIMQLPQG LAYALLAGLP PMFGLYSSFY PVFIYFLFGT SRHISVGTFA VMSVMVGSVT ESLTADKAFV QGLNATADDA RVQVAYTLSF LVGLFQVGLG LVHFGFVVTY LSEPLVRSYT TAASVQVLVS QLKYVFGIKL SSHSGPLSVI YTVLEVCAQL PETVPGTVVT AIVAGVALVL VKLLNEKLHR RLPLPIPGEL LTLIGATGIS YGVKLNDRFK VDVVGNITTG LIPPVAPKTE LFATLVGNAF AIAVVGFAIA ISLGKIFALR HGYRVDSNQE LVALGLSNLI GGFFQCFPVS CSMSRSLVQE STGGNTQVAG AVSSLFILLI IVKLGELFRD LPKAVLAAVI IVNLKGMMKQ FSDICSLWKA NRVDLLIWLV TFVATILLNL DIGLAVSIVF SLLLVVVRMQ LPHYSVLGQV PDTDIYRDVA EYSGAKEVPG VKVFRSSATL YFANAELYSD SLKEKCGVDV DRLITQKKKR IKKQEMKLKR MKKAKKSQKQ DASSKISSVS VNVNTNLEDV KSNDVEGSEA KVHQGEELQD VVSSNQEDAK APTMTSLKSL GLPQPGFHSL ILDLSTLSFV DTVCIKSLKN IFRDFREIEV EVYIAACYSP VVAQLEAGHF

Product Details

	FDESITKQHV FASVHDAVTF ALSHRKSVPK SPVLATKL **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:	SLC26A6
Alternative Name:	Slc26a6 (SLC26A6 Products)
Background:	Solute carrier family 26 member 6 (Anion exchange transporter) (Chloride-formate exchanger) (Pendrin-L1) (Pendrin-like protein 1) (Putative anion transporter-1) (Pat-1),FUNCTION: Apical membrane anion-exchanger with wide epithelial distribution that plays a role as a component of the pH buffering system for maintaining acid-base homeostasis. Acts as a versatile DIDS-sensitive inorganic and organic anion transporter that mediates the uptake of monovalent anions like chloride, bicarbonate, formate and hydroxyl ion and divalent anions like sulfate and oxalate. Functions in multiple exchange modes involving pairs of these anions, which include

	chloride-bicarbonate, chloride-oxalate, oxalate-formate, oxalate-sulfate and chloride-formate exchange. Apical membrane chloride-bicarbonate exchanger that mediates luminal chloride absorption and bicarbonate secretion by the small intestinal brush border membrane and contributes to intracellular pH regulation in the duodenal upper villous epithelium during proton-coupled peptide absorption, possibly by providing a bicarbonate import pathway. Its association with carbonic anhydrase CA2 forms a bicarbonate transport metabolon, hence maximizes the local concentration of bicarbonate at the transporter site. Mediates also intestinal chloride absorption and oxalate secretion, thereby preventing hyperoxaluria and calcium oxalate urolithiasis. Transepithelial oxalate secretion, chloride-formate, chloride-oxalate and chloride-bicarbonate transport activities in the duodenum are inhibited by PKC activation in a calcium-independent manner. The apical membrane chloride-bicarbonate exchanger provides also a major route for fluid and bicarbonate secretion into the proximal tubules of the kidney as well as into the proximal part of the interlobular pancreatic ductal tree, where it mediates electrogenic chloride-bicarbonate exchange with a chloride-bicarbonate stoichiometry of 1:2, and hence will dilute and alkalinize protein-rich acinar secretion. Mediates also the transcellular sulfate absorption and oxalate secretion across the apical membrane in the duodenum and the formate ion efflux at the apical brush border of cells in the proximal tubules of kidney. Plays a role in sperm capacitation by increasing intracellular pH . {ECO:0000269|PubMed:11842009, ECO:0000269|PubMed:12119287, ECO:0000269|PubMed:16141316, ECO:0000269|PubMed:16532010, ECO:0000269|PubMed:16606687, ECO:0000269|PubMed:17053783, ECO:0000269|PubMed:17170027, ECO:0000269|PubMed:18046080, ECO:0000269|PubMed:18496516, ECO:0000269|PubMed:20150244, ECO:0000269|PubMed:20969732, ECO:0000269|PubMed:21976599, ECO:0000269|PubMed:22021714, ECO:0000269|PubMed:22895259, ECO:0000269|PubMed:23933580, ECO:0000269|PubMed:29530983}., FUNCTION: [Isoform 2]: Mediates electrogenic chloride-bicarbonate exchange with a chloride-bicarbonate stoichiometry of 1:2 (PubMed:12217875, PubMed:23933580). Also mediates exchange of chloride-formate and chloride-oxalate ions (PubMed:11459928, PubMed:12217875, PubMed:15203903, PubMed:17151144, PubMed:23933580). Mediates transcellular sulfate absorption (PubMed:12217875). {ECO:0000269|PubMed:11459928, ECO:0000269|PubMed:12217875, ECO:0000269|PubMed:15203903, ECO:0000269|PubMed:17151144, ECO:0000269|PubMed:23933580}.
Molecular Weight:	82.8 kDa
UniProt:	Q8CIW6

Target Details

Pathways:	Dicarboxylic Acid 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