

Datasheet for ABIN7561925 SLC4A11 Protein (AA 1-862) (His tag)



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Quantity:	1 mg
Target:	SLC4A11
Protein Characteristics:	AA 1-862
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC4A11 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Purpose:	Custom-made recombinat Slc4a11 Protein expressed in mammalien cells.
Sequence:	MSQNEHCQDS GEYFSAGTQG YFKNNMEDNL EVREDSLGDE VFDTVNSSIV SGESIRFFVN
	VNLEVQPSKS DLEAATGGCV LLHTSRKYLK LKNFEEEVRA HRDLDGFLAQ ASIILNETAT
	SLDDVLRTML NRFALDPNHA EPDCDLDLLM AKLFTDAGAP MESKVHLLSD TIQGVTATVR
	GVQYEQSWLC IICTMKTLQK RHVCISRLVR PQNWGENSCE VRFVILVLAP PKMKSTKTAM
	EVARTFATMF SDITFRQKLL KTRTEEEFKE ALVHQRQLLT MMMPRAAGHS MSSLHTHRHP
	QPPKCKDFFP FGKGIWMDIM RRFPVYPMDF TDGIIGKSKS VGKYVTTTLF LYFACLLPTI
	AFGSLNDENT NGAIDVQKTI AGQSIGGLLY ALFSGQPLVI LLTTAPLAIY TQVIRVICDD
	YNLDFNAFYA WTGLWNSFFL ALYAFLNLSL LMNLFKRSTE EIIALFISIT FVLDAVKGMV
	KIFGKYYYGH HYHTKRTSSL VSLLGIGRSP NSSLHTALNA SLLASPVEMA TTSSPGSTHS
	GQATAVLSLL IMLGTLWLGY TLYQFKKSPY LHPCVRETLS DCALPIAVLS FSLIGSYGFQ
	EIEMSKFRYN PSESLFEVAQ IHSLSFKAIG SAMGLGFLLS LLFFIEQNLV AALVNAPENR

LVKGTAYHWD LLLLAIINTG LSLFGLPWIH AAYPHSPLHV RALALVEERV ENGHIYETIV

DVKETRLTAL GASVLVGLSL LLLPFPLQWI PKPVLYGLFL YIALTSLDGN QLFSRVALLL

KEQTSYPPTH YIRRVPQRKI HYFTGLQILQ LLLLCAFGMS SLPYMKMVFP LIMIAMIPIR

YNLLPRIIEA KYLDVMDAEH RP 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:	SLC4A11
Alternative Name:	Slc4a11 (SLC4A11 Products)
Background:	Solute carrier family 4 member 11 (Sodium borate cotransporter 1) (NaBC1),FUNCTION:
	Multifunctional transporter with an impact in cell morphology and differentiation
	(PubMed:20185830). In the presence of borate B(OH)4(-), acts as a voltage-dependent
	electrogenic Na(+)-coupled B(OH)4(-) cotransporter controlling boron homeostasis (By
	similarity). At early stages of stem cell differentiation, participates in synergy with ITGA5-ITGB1
	and ITGAV-ITGB3 integrins and BMPR1A to promote cell adhesion and contractility that drives
	differentiation toward osteogenic commitment while inhibiting adipogenesis

(PubMed:33247189). In the absence of B(OH)4(-), acts as a Na(+)-coupled OH(-) or H(+) permeable channel with implications in cellular redox balance. Regulates the oxidative stress response in corneal endothelium by enhancing antioxidant defenses and protecting cells from reactive oxygen species. In response to hypo-osmotic challenge, also acts as water permeable channel at the basolateral cell membrane of corneal endothelial cells and facilitates transendothelial fluid reabsorption in the aqueous humor. In the presence of ammonia, acts as an electrogenic NH3/H(+) cotransporter and may play a role in ammonia transport and reabsorption in renal Henle's loop epithelium (By similarity). {ECO:0000250|UniProtKB:Q8NBS3, ECO:0000269|PubMed:20185830, ECO:0000269|PubMed:33247189}.

Molecular Weight:

96.8 kDa

UniProt:

A2AJN7

Pathways:

Proton Transport

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