

Datasheet for ABIN7555366

SLC4A10 Protein (AA 1-1118) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC4A10
Protein Characteristics:	AA 1-1118
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC4A10 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC4A10 Protein expressed in mammalian cells.
Sequence:	<p>MEIKDQGAQM EPLLPTNRDE EAVVDRGGTR SILKTHFEKE DLEGHRTLFI GVHVPLGGRK</p> <p>SHRRHRHRGH KHRKDRERD SGLEDGRESP SFDTPSQRVQ FILGTEDDDE EHIPDLFTE</p> <p>LDEICWREGA DAEWRETARW LKFEEDVEDG GERWSKPYYA TSLHSLFEL RSCILNGTVL</p> <p>LDMHANTLEE IADMVLDQQV SSGQLNEDVR HRVHEALMKQ HHHQNQKKLT NRPIVRSFA</p> <p>DIGKKQSEPN SMDKNAGQVV SPQSAPACVE NKNDVSRENS TVDFSKGLGG QQKGHTSPCG</p> <p>MKQRHEKGPP HQQEREVDLH FMKKIPPGAE ASNILVGELE FLDRTVVAFFV RLSPAVLLQG</p> <p>LAEVPIPTRF LFILLGPLGK GQQYHEIGRS IATLMTDEVF HDVAYKAKDR NDLVSGIDEF</p> <p>LDQVTVLPPG EWDPSIRIEP PKNVPSQEKR KIPAVPNGTA AHGEAEPHGG HSGPELQRTG</p> <p>RIFGGLILDI KRKAPYFWSR FRDAFSLQCL ASFLFLYCAC MSPVITFGGL LGEATEGRIS</p> <p>AIESLFGASM TGIAYSLFGG QPLTILGSTG PVLVFEKILF KFCKEYGLSY LSLRASIGLW</p> <p>TATLCIILVA TDASSLVCIY TRFTEAFAS LICIFIYEA LEKLFELSEA YPINMHNDLE LLTQYSCNCV</p> <p>EPHNPSNGTL KEWRESNISA SDIIWENLTV SECKSLHGEY VGRACGHDHP YVPDVLFWSV</p>

ILFFSTVTLS ATLKQFKTSR YFPTKVRISV SDFAVFLTIL CMVLIDYAIG IPSPKLQVPS
VFKPTRDDRG WFVTPLGPNP WWTVIAAIP ALLCTILIFM DQKITAVIIN RKEHKLKKGK
GYHLDLLMVA VMLGVCSIMG LPWFVAATVL SITHVNSLKL ESECSAPGEQ PKFLGIREQR
VTGLMIFILM GSSVFMTSIL KFIPMPVLYG VFLYMGASSL KGIQFFDRIK LFWMPAKHQP
DFIYLRHVPL RKVHLFTIIQ MSCLGLLWII KVSRAAIVFP MMVLALVFVR KLMDLLFTKR
ELSWLDDLMP ESKKKKLEDA EKEEEQSMLE MEDEGTVQLP LEGHYRDDPS VINISDEMSK
TALWRNLLIT ADNSKDKESS FPSKSSPS **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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	SLC4A10
Alternative Name:	SLC4A10 (SLC4A10 Products)
Background:	Sodium-driven chloride bicarbonate exchanger (Solute carrier family 4 member 10),FUNCTION:

Target Details

Sodium/bicarbonate cotransporter which plays an important role in regulating intracellular pH (PubMed:18319254). Has been shown to act as a sodium/bicarbonate cotransporter in exchange for intracellular chloride (By similarity). Has also been shown to act as a sodium/bicarbonate cotransporter which does not couple net influx of bicarbonate to net efflux of chloride, with the observed chloride efflux being due to chloride self-exchange (PubMed:18319254). Controls neuronal pH and may contribute to the secretion of cerebrospinal fluid (By similarity). Reduces the excitability of CA1 pyramidal neurons and modulates short-term synaptic plasticity (By similarity). Required in retinal cells to maintain normal pH which is necessary for normal vision (By similarity). In the kidney, likely to mediate bicarbonate reclamation in the apical membrane of the proximal tubules (By similarity). {ECO:0000250|UniProtKB:Q5DTL9, ECO:0000250|UniProtKB:Q80ZA5, ECO:0000269|PubMed:18319254}.

Molecular Weight: 125.9 kDa

UniProt: [Q6U841](#)

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