

Datasheet for ABIN7555408
SLC4A7 Protein (AA 1-1214) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC4A7
Protein Characteristics:	AA 1-1214
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC4A7 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC4A7 Protein expressed in mammalian cells.
Sequence:	MERFRLEKKL PGPDEEAVVD LGKTSSTVNT KFEKEEESH RAVYIGVHVP FSKESSRRHR HRGHKHHRR RKDKESDKED GRESPSYDTP SQRVQFILGT EDDDEEHIPH DLFTMDELG YRDGEEYEWK ETARWLKFEEDV DVEDGGDRWS KPYVATLSLH SLFELRSCIL NGTVMLDMRA STLDEIADMV LDNMIASGQL DESIRENVRE ALLKRHHHQE EKRFTSRIPL VRSFADIGKK HSDPHLLERN GEGLSASRHS LRTGLSASNL SLRGESPLSL LLGHLLPSSR AGTPAGSRCT TPVPTPQNSP PSSPSISRLT SRSSQESQRQ APELLVSPAS DDIPVVIHP PEEDLEAALK GEEQKNEENV DLTPGILASP QSAPGNL DNS KSGEIKNGS GGSRENSTVD FSKVDMNFMR KIPTGAEASN VLVGEVDFLE RPIIAFVRLA PAVLLTGLTE VVPVTRFLFL LLGPAGKAPQ YHEIGRSIAT LMTDEIFHDV AYKAKDRNDL LSGIDEFLDQ VTVLPPGEWD PSIRIEPPKS VPSQEKRKIP VFHNGSTPTL GETPKEAAHH AGPELQRTGR LFGGLILDIK RKAPFFLSDF KDALSLQCLA SILFLYCACM SPVITFGGLL GEATEGRISA IESLFGASLT GIAYSLFAGQ PLTILGSTGP VLVFEKILYK FCRDYQLSYL SLRTSIGLWT SFLCIVLVAT DASSLVCIYIT

Product Details

RFTEEAFAAL ICIIFIYEAL EKLFDLGETY AFNMHNNLDK LTSYSCVCTE PPNPSNETLA
QWKKDNITAH NISWRNLTVS ECKKLRGVFL GSACGHHGPY IPDVLFWCVI LFFTTFFLSS
FLKQFKTKRY FPTKVRSTIS DFAVFLTIVI MVTIDYLVGV PSPKLHVPEK FEPTHPERGW
IISPLGDNPW WTLLIAAIPA LLCTILIFMD QQITAVIINR KEHKLKKGAG YHLDLLMVGV
MLGVCSVMGL PWFVAATVLS ISHVNSLKVE SECSAPGEQP KFLGIREQRV TGLMIFILMG
LSVFMTSVLK FIPMPVLYGV FLYMGVSSLK GIQLFDRIKL FGMPAKHQPD LIYLRVPLW
KVHIFTVIQL TCLVLLWVIK VSAAAVFPM MVLALVFVRK LMDLCFTKRE LSWLDDLMPE
SKKKKEDDKK KKEKEEAERM LQDDDDTVHL PFEGGSLLQI PVKALKYSPD KPVSVKISFE
DEPRKKYVDA ETSL **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: SLC4A7

Alternative Name: SLC4A7 ([SLC4A7 Products](#))

Target Details

Background: Sodium bicarbonate cotransporter 3 (Electroneutral Na/HCO₃ cotransporter) (Sodium bicarbonate cotransporter 2) (Sodium bicarbonate cotransporter 2b) (Bicarbonate transporter) (Solute carrier family 4 member 7),FUNCTION: Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na⁽⁺⁾:HCO₃⁽⁻⁾ 1:1 stoichiometry (PubMed:10347222, PubMed:12403779, PubMed:14736710, PubMed:14578046). Mediates the sodium-dependent bicarbonate transport important for pH recovery after acid load as well as for regulation of steady-state pH in the duodenum and vascular smooth muscle cells (By similarity). Plays a key role in macrophage acidification, mediating bicarbonate import into the cytoplasm which is crucial for net acid extrusion and maintenance of cytoplasmic pH during phagocytosis (PubMed:29779931). Provides cellular bicarbonate for de novo purine and pyrimidine synthesis and is a key mediator of de novo nucleotide synthesis downstream of mTORC1 signaling in proliferating cells (PubMed:35772404). {ECO:0000250|UniProtKB:Q8BTY2, ECO:0000269|PubMed:10347222, ECO:0000269|PubMed:12403779, ECO:0000269|PubMed:14578046, ECO:0000269|PubMed:14736710, ECO:0000269|PubMed:29779931, ECO:0000269|PubMed:35772404}., FUNCTION: [Isoform 6]: Plays a key role in macrophage acidification, mediating bicarbonate import into the cytoplasm which is crucial for net acid extrusion and maintenance of cytoplasmic pH during phagocytosis. {ECO:0000269|PubMed:29779931}.

Molecular Weight: 136.0 kDa

UniProt: [Q9Y6M7](#)

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.

Handling

Expiry Date: 12 months