

Datasheet for ABIN7564426  
**SLC4A7 Protein (AA 1-1034) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SLC4A7
Protein Characteristics:	AA 1-1034
Origin:	Mouse
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:	MEADGAGEQM RPLLTRGPDE EAVVDLGKTS STVNTKFEKE ELESHRAVYV GVHVPFSKES RRRHKHRGHK HHHRRRKDKD SDKEDGRESP SYDTPSQRVQ FILGTEDDDE EHIPHDLFTE MDELCYRDGE EYEWKETARW LKFEEDVEDG GDRWSKPYVA TLSLHSLFEL RSCILNGTVM LDMRASTLDE IADMVLNMI ASGQLDDSIR ENVREALLKR HHHQNEKRFT SRIPLVRSFA DIGILASPQS APGNLDNSKS GEMKGNSSGG SRENSTVDFS KVDNMFMRKI PTGAEASNVL VGEVDFLERP IIAFVRLAPA VLLSGLTEVP VPTRFLFLLL GPAGKAPQYH EIGRSIATLM TDEIFHDVAY KAKDRNDLLS GIDEFLDQVT VLPPGEWDPS IRIEPPKSVP SKEKRKIPVF PNGSAAMSVG PPKEDDHHAG PELQRTGRLF GGLLDIKRK APFFLSDFKD ALSLQCLASI LFLYCACMSP VITFGLLGE ATEGRISAIE SLFGASLTGI AYSLFAGQPL TILGSTGPVL VFEKILFKFC RDYHLSYLSL RTSIGLWTSF LCIVLVATDA SSLVCYITRF TEEAFAALIC IIFIYEALEK LFHLGEIYAF NMHNNLDELTA SYTCVCAEPS NPSNETLELW KRKNITAYSV SWGNLTVSEC KTFHGMFVGS ACPHGPYVP DVLFWCVVLF FTTFFLSSFL KQFKTKGYFP TKVRSTISDF

## Product Details

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AVFLTIVIMV AIDYLVGIPS PKLHVPEKFE PTDPSRGWII SPLGDNPWWT LLIAAVPALL  
CTILIFMDQQ ITAVIINRKE HKLKFIPMPV LYGVFLYMGV SSLKGIQFFD RIKLFGMPAK  
HQPDLIYLRV VPLWKVHVFT VVQLTCLVLL WVIKASAAAV VFPMMVLALV FVRKLMDLCF  
TKRELSWLDD LMPESKKEE DDKKKEKEE AERMLQDDED TVHLPFERGS LLQIPVKTLK  
YSIDPSVNI SDEMAKTAQW KALSMNTENA KVTRPNTSPE KPVSVTINFE DEPSKKYMDA 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.**

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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.

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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.

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Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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Grade: custom-made

## Target Details

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Target: SLC4A7

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Alternative Name: Slc4a7 ([SLC4A7 Products](#))

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Background: Sodium bicarbonate cotransporter 3 (Solute carrier family 4 member 7),FUNCTION: Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+):HCO3(-) 1:1 stoichiometry (PubMed:16439691, PubMed:22586225, PubMed:23401617). Mediates the

## Target Details

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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 (PubMed:16439691, PubMed:22586225, PubMed:23401617). 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 (By similarity). 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 (By similarity). May be involved in maintaining locomotor activity, exploratory behavior, and hearing (PubMed:12808454, PubMed:33321164). {ECO:0000250|UniProtKB:Q9Y6M7, ECO:0000269|PubMed:12808454, ECO:0000269|PubMed:16439691, ECO:0000269|PubMed:22586225, ECO:0000269|PubMed:23401617, ECO:0000269|PubMed:33321164}.

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Molecular Weight: 116.5 kDa

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UniProt: [Q8BTY2](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months