

Datasheet for ABIN7562744  
**Band 3/AE1 Protein (AA 1-929) (His tag)**



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## Overview

Quantity:	1 mg
Target:	Band 3/AE1 (SLC4A1)
Protein Characteristics:	AA 1-929
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Band 3/AE1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Slc4a1 Protein expressed in mammalian cells.
Sequence:	<p>MGDMRDHEEV LEIPDRDSEE ELENIIQIA YRDLTIPVTE MQDPEALPTE QTATDYVPSS TSTPHPSSGQ VYVELQELMM DQRNQELQWV EAAHWIGLEE NLREDGVWGR PHLSYLTFWS LLELQKVFSK GTFLLGLAET SLAGVANHLL DCFIYEDQIR PQDREELLRA LLLKRSHAED LGNLEGVKPA VLTRSGGASE PLLPHQPSLE TQLYCGQAEG GSEGPSTSGT LKIPPDSETT LVLVGRANFL EKPVLG FVRL KEAVPLEDLV LPEPVGFLLV LLGPEAPHVD YTQLGRAAAAT LMTERVFRIT ASMAHNREEL LRSLESFLDC SLVLPPTDAP SEKALLNLVP VQKELLRRRY LPSPAKPDPN LYNTLDLNGG KGGPGDEDDP LRRTGRIFGG LIRDIRRRYP YYLSDITDAL SPQVLA AVIF IYFAALSPAV TFGLLGEKT RNLMGVSELL ISTAVQGILF ALLGAQPLL V LGFSGPLL V F EEAFFSFCES NNLEYIVGRA WIGFWLILLV MLVVAFEGSF LVQYISRYTQ EIFSFLISLI FIYETFSKLI KIFQDYPLQQ TYAPVVMKPK PQGPVPNTAL FSLVLMAGTF LLAMTLRKFK NSTYFPGKLR RVIGDFGVPI SILIMVLVDS FIKGTYTQKL SVPDGLKVS N SSARGWVIHP LGLYRLFPTW MMFASVLPAL LVFILIFLES QITTLIVSKP ERKMIKSGSF</p>

## Product Details

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HLDLLLVVGM GGVAALFGMP WLSATTVRSV THANALTVMG KASGPGAAAQ IQEVKEQRIS  
GLLVSVLVGL SILMEPILSR IPLAVLFGIF LYMGVTSLSG IQLFDRILLL FKPPKYHPDV  
PFVKRVKTWR MHLFTGIQII CLAVLWVVKV TPASLALPFV LILTVPLRRL ILPLIFRELE  
LQCLDGDDAK VTFDEENGLD EYDEVPMPV **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

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Target: Band 3/AE1 (SLC4A1)

Alternative Name: Slc4a1 ([SLC4A1 Products](#))

Background: Band 3 anion transport protein (Anion exchange protein 1) (AE 1) (Anion exchanger 1) (MEB3) (Solute carrier family 4 member 1) (CD antigen CD233),FUNCTION: Functions both as a transporter that mediates electroneutral anion exchange across the cell membrane and as a structural protein. Component of the ankyrin-1 complex of the erythrocyte membrane, required

## Target Details

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for normal flexibility and stability of the erythrocyte membrane and for normal erythrocyte shape via the interactions of its cytoplasmic domain with cytoskeletal proteins, glycolytic enzymes, and hemoglobin. Functions as a transporter that mediates the 1:1 exchange of inorganic anions across the erythrocyte membrane. Mediates chloride-bicarbonate exchange in the kidney, and is required for normal acidification of the urine.

{ECO:0000250|UniProtKB:P02730}.

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Molecular Weight: 103.1 kDa

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UniProt: [P04919](#)

## 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