

Datasheet for ABIN7552501
SLC4A2 Protein (AA 1-1241) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC4A2
Protein Characteristics:	AA 1-1241
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC4A2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SLC4A2 Protein expressed in mammalien cells.
Sequence:	MSSAPRRPAK GADSFCTPEP ESLGPGTPGF PEQEEDELHR TLGVERFEEI LQEAGSRGGE EPGRSYGEED FEYHRQSSHH IHHPLSTHLP PDARRRKTPQ GPGRKPRRRP GASPTGETPT IEEGEEDDE ASEAEGARAL TQPSPVSTPS SVQFFLQEDD SADRKAERTS PSSPAPLPHQ EATPRASKGA QAGTQVEEAE AEAVALASGT AGGDDGGASG RPLPKAQPGH RSYNLQERRR IGSMTGAEQA LLPRVPTDEI EAQTLATADL DLMKSHRFED VPGVRRHLVR KNAKGSTQSG REGREPGPTP RARPRAPHKP HEVFVELNEL LLDKNQEPQW RETARWIKFE EDVEEETERW GKPHVASLSF RSLLELRRTL AHGAVLLDLD QQTLPGVAHQ VVEQMVISDQ IKAEDRANVL RALLLKHSHP SDEKDFSFP NISAGSLGSL LGHHHGQAE SDPHVTEPLM GGPVETRLEV ERERELPPPA PPAGITRSKS KHELKLEKI PENAEATVVL VGCVEFLSRP TMAFVRLREA VELDAVLEVP VVPRFLFLLL GPSSANMDYH EIGRSISTLM SDKQFHEAAY LADEREDLLT AINAFDCSV VLPPSEVQGE ELLRSVAHFQ RQMLKKREEQ GRLLPTGAGL EPKSAQDKAL

LQMVEAAGAA EDDPLRRTGR PFGGLIRDVR RRYPHYLSDF RDALDPQCLA AVIFIYFAAL
SPAITFGGLL GEKTQDLIGV SELIMSTALQ GVVFCLLGAQ PLLVIGFSGP LLVFEEAFFS
FCSSNHLEYL VGRVWIGFWL VFLALLMVAL EGSFLVRFVS RFTQEIFAFL ISLIFIYETF
YKLVKIFQEH PLHGCSASNS SEVDGGENMT WAGARPTLGP GNRSLAQSG QGKPRGQPNT
ALLSLVLMAG TFFIAFFLRK FKNSRFFPGR IRRVIGDFGV PIALIMVLV DYSIEDTYTQ
KLSVPSGFSV TAPEKRGWVI NPLGEKSPFP VWMMVASLLP AILVFILIFM ETQITTLIIS
KKERMLQKGS GFHLDLLLIV AMGGICALFG LPWLAAATVR SVTHANALTV MSKAVAPGDK
PKIQEVKEQR VTGLLVALLV GLSIVIGDLL RQIPLAVLFG IFLYMGVTSL NGIQFYERLH
LLLMPKHPH DVTYVKKVRT LRMHLFTALQ LLCLALLWAV MSTAASLAFP FILILTVPLR
MVLTRIFTD REMKCLDANE AEPVFDEREG VDEYNEMPMP V **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 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, Western Blot

Grade:

custom-made

Target Details

Target:

SLC4A2

Alternative Name:

SLC4A2 ([SLC4A2 Products](#))

Target Details

Background: Anion exchange protein 2 (AE 2) (Anion exchanger 2) (Non-erythroid band 3-like protein) (BND3L) (Solute carrier family 4 member 2),FUNCTION: Sodium-independent anion exchanger which mediates the electroneutral exchange of chloride for bicarbonate ions across the cell membrane (PubMed:15184086, PubMed:34668226). Plays an important role in osteoclast differentiation and function (PubMed:34668226). Regulates bone resorption and calpain-dependent actin cytoskeleton organization in osteoclasts via anion exchange-dependent control of pH (By similarity). Essential for intracellular pH regulation in CD8(+) T-cells upon CD3 stimulation, modulating CD8(+) T-cell responses (By similarity). {ECO:0000250|UniProtKB:P13808, ECO:0000269|PubMed:15184086, ECO:0000269|PubMed:34668226}.

Molecular Weight: 137.0 kDa

UniProt: [P04920](#)

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