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Datasheet for ABIN7555291

SLC12A2 Protein (AA 1-1212) (His tag)

Overview

Quantity:	1 mg
Target:	SLC12A2
Protein Characteristics:	AA 1-1212
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC12A2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat SLC12A2 Protein expressed in mammalien cells.
Sequence:	MEPRPTAPSS GAPGLAGVGE TPSAAALAAA RVELPGTAVP SVPEDAAPAS RDGGGVRDEG PAAAGDGLGR PLGPTPSQSR FQVDLVSENA GRAAAAAAAAA AAAAAAAGAG AGAKQTPADG EASGESEPAK GSEEAKGRFR VNFVDPAAASS SAEDSLSDAA GVGVDGPNVS FQNGGDTVLS EGSSLHSGGG GSGGHHQHYY YDTHNTYYL RTFGHNTMDA VPRIDHYRHT AAQLGEKLLR PSLAELHDEL EKEPFEDGFA NGEESTPTRD AVVTYTAESK GVKFGWIKG VLVRCMLNIW GVMLFIRLSW IVGQAGIGLS VLVIMMATVV TTITGLSTSA IATNGFVRGG GAYYLISRSL GPEFGGAIGL IFAFANAVAV AMYVVGFAET VVELLKEHSI LMIDEINDIR IIGAITVVIL LGISVAGMEW EAKAQIVLLV ILLLAIGDFV IGTFIPLESK KPKGFFGYKS EIFNENFGPD FREEETFFSV FAIFFPAATG ILAGANISGD LADPQSAIPK GTLLAILITT LVYVGIASVS GSCVVRDATG NVNDTIVTEL TNCTSAACKL NDFSSCESS PCSYGLMNNF QVMSMMSGFT PLISAGIFSA TLSSALASLV SAPKIFQALC KDNIYPAFQM FAKGYGKNE PLRGYILTFL IALGFILIAE LNVIAPIISN FFLASYALIN

Product Details

FSVFHASLAK SPGWRPAFKY YNMWISLLGA ILCCIVMFVI NWWAALLTYV IVLGLYIYVT
YKKPDVNWGS STQALTYLNA LQHSIRLSGV EDHVKNFRPQ CLVMTGAPNS RPALLHLVHD
FTKNVGLMIC GHVHMGP RRQ AMKEMSIDQA KYQRWLIK NK MKAFYAPVHA DDLREGAQYL
MQAAGLGRMK PNTLVLGFKK DWLQADMRDV DMYINLFHDA FDIQYGVVVI RLKEGLDISH
LQGQEELLSS QEKSPGTKDV VVSVEYSKKS DLDTSKPLSE KPITHKVEEEE DGKTATQPLL
KKEKSGPIVP LNVADQKLE ASTQFQKKQG KNTIDVWWLF DDGGLTLLIP YLLTTKKKWK
DCKIRVFIGG KINRIDHRR AMATLLSKFR IDFSDIMVLG DINTKPKKEN IIAFEEIIEP YRLHEDDKEQ
DIADKMKEDE PWRITDNELE LYKTKTYRQI RLNELLKEHS STANIIVMSL PVARKGAVSS
ALYMAWLEAL SKDLPPILLV RGNHQSVLTF YS **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: SLC12A2

Alternative Name: SLC12A2 ([SLC12A2 Products](#))

Background: Solute carrier family 12 member 2 (Basolateral Na-K-Cl symporter) (Bumetanide-sensitive)

Target Details

sodium-(potassium)-chloride cotransporter 2),FUNCTION: Cation-chloride cotransporter which mediates the electroneutral transport of chloride, potassium and/or sodium ions across the membrane (PubMed:32081947, PubMed:33597714, PubMed:32294086, PubMed:7629105, PubMed:16669787). Plays a vital role in the regulation of ionic balance and cell volume (PubMed:32081947, PubMed:32294086, PubMed:7629105, PubMed:16669787). {ECO:0000269|PubMed:16669787, ECO:0000269|PubMed:32081947, ECO:0000269|PubMed:32294086, ECO:0000269|PubMed:33597714, ECO:0000269|PubMed:7629105}.

Molecular Weight: 131.4 kDa

UniProt: [P55011](#)

Pathways: [Sensory Perception of Sound](#)

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