

Datasheet for ABIN7563453
SLC12A1 Protein (AA 1-1095) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC12A1
Protein Characteristics:	AA 1-1095
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC12A1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Slc12a1 Protein expressed in mammalian cells.
Sequence:	<p>MSVSIPSNSV PSSASRFQVH VINEGHGSAA AVGDSADPPH YEETSFGDEA QNRLRISFRP GNQECYDNFL QTGETAKTDT TFHAYDSHTN TYYLQTFGHN TMDAVPKIEY YRNTGSVSGP KVNRPSSLLEI HEQLAKNVTV APGSADRVAN GDGMPGDEQA ENKEEDMTGV VKFGWVKGVL VRCMLNIWGV MLFIRLSWIV GEAGIGLGV L ILLSTMVTS ITGLSTSAIA TNGFVRGGGA YYLISRSLGP EFGGSIGLIF AFANAVAVAM YVVGFAETVV DLLKESDSMM VDPTNDIRII GSITVILLG ISVAGMEWEA KAQVILLVIL LIAIANFFIG TVIPSNNEKK SRGFFNYQAS IFAENFGPSF TKGEGFFSVF AIFPPAATGI LAGANISGDL EDPQDAIPRG TMLAIFITTV AYIGVAICVA ACVVRDATGS MNMTIVSGMN CNGSAACGLG YDFSRCQHEP CQYGLMNNFQ VMSMVSGFGP LITAGIFSAT LSSALASLVS APKVFQALCK DNIFKGLQFF AKGYGKNNEP LRGYFLTFVI AMAFILIAEL NVIAPIISNF FLASYALINF SCFHASYAKS PGWRPAYGIY NMWVSLFGAI LCCAVMFVIN WWAAVITYVI ELFLYIYVTY KKPVDVNWGSS TQALSYSVSAL DNALELTTVE DHVKNFRPQC IVLTGGPMTR PALLDITHAF TKNSGLCICC EVFVGPRKLC VKEMNSGMAK</p>

Product Details

KQAWLIKNI KAFYAADA CFRDGVRSLL QASGLGRMKP NTLVIGYKKN WRKAPLSELE
NYVGIHDAF DFEIGVVIVR ISQGFDISPV LQVQDELEKL EQERLALAEA IKDNECEEK
GGIRGLFKKA GKLNITKPAP KKDGNISSIQ SMHVGEFNQK LVEASAQFKK KQGKGTIDVW
WLFDDGGLTL LIPYILTRK KWKDCKLRIY VGGKITRIEE EKISMASLLS KFRIKFADIH IIGDINIKPN
KESWKVFEEM IEPYRLHESH KDLTTAEKLNK RESPWKITDA ELEAVKEKSY RQVRLNELLQ
EHSRAANLIV LSLPVARKGS ISDLLYMAWL EILTKNLPPV LLVRGNHKNV LTFYS **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: SLC12A1

Alternative Name: Slc12a1 ([SLC12A1 Products](#))

Background: Solute carrier family 12 member 1 (BSC1) (Bumetanide-sensitive sodium-(potassium)-chloride cotransporter 2) (Kidney-specific Na-K-Cl symporter),FUNCTION: Renal sodium, potassium and

Target Details

chloride ion cotransporter that mediates the transepithelial NaCl reabsorption in the thick ascending limb and plays an essential role in the urinary concentration and volume regulation. Electrically silent transporter system. {ECO:0000269|PubMed:11790783, ECO:0000305|PubMed:25967121}., FUNCTION: [Isoform A]: High affinity, high capacity cotransporter for sodium, potassium and chloride ions, with a coupling ratio 1Na(+):1K(+):2Cl(-). {ECO:0000269|PubMed:11790783}., FUNCTION: [Isoform B]: High affinity, low capacity cotransporter for sodium, potassium and chloride ions, with a coupling ratio 1Na(+):1K(+):2Cl(-). {ECO:0000269|PubMed:11790783}., FUNCTION: [Isoform F]: Low affinity, low capacity cotransporter for sodium, potassium and chloride ions, with a coupling ratio 1Na(+):1K(+):2Cl(-). {ECO:0000269|PubMed:11790783}.

Molecular Weight: 120.4 kDa

UniProt: [P55014](#)

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.

Expiry Date: 12 months