

Datasheet for ABIN7545963

SLC5A10 Protein (AA 1-596) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC5A10
Protein Characteristics:	AA 1-596
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC5A10 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC5A10 Protein expressed in mammalian cells.
Sequence:	MAANSTSDLH TPGTQLSVAD IIVITVYFAL NVAVGIWSSC RASRNTVNGY FLAGRDMTWW PIGASLFASS EGSGFLIGLA GSGAAGGLAV AGFEWNATYV LLALAWVFVP IYISSEIVTL PEYIQKRYGG QRIRMYLSVL SLLSVFTKI SLDLYAGALF VHICLGWNFY LSTILTLGIT ALYTIAGGLA AVIYTDALQT LIMVVGAVIL TIKAFDQIGG YGQLEAAYAQ AIPSRTIANT TCHLPRTDAM HMFRDPHTGD LPWTGMTFGL TIMATWYWCT DQVIVQRSLS ARDLNHAKAG SILASYLKML PMGLIIMPGM ISRALFPDDV GCVVPSECLR ACGAEVGCSN IAYPKLVMEL MPIGLRGLMI AVMLAALMSS LTSIFNSSST LFTMDIWRRRL RPRSGERELL LVGRLVIVAL IGVSVAWIPV LQDSNSGQLF IYMQSVTSSL APPVTAVFVL GVFWRRANEQ GAFWGGLIAGL VVGATRLVLE FLNPAPPCGE PDTRPAVLGS IHYLHFAVAL FALSGAVVVA GSLLTPPPQS VQIENLTWWT LAQDVPLGTK AGDGQTPQKH AFWARVCGFN AILLMCVNIF FYAYFA 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: SLC5A10

Alternative Name: SLC5A10 ([SLC5A10 Products](#))

Background: Sodium/mannose cotransporter SLC5A10 (Sodium/glucose cotransporter 5) (Na⁺)/glucose cotransporter 5) (Solute carrier family 5 member 10),FUNCTION: [Isoform 1]: Electrogenic Na⁺-coupled sugar symporter that actively transports D-mannose or D-fructose at the plasma membrane, with a Na⁺ to sugar coupling ratio of 1:1. Transporter activity is driven by a transmembrane Na⁺ electrochemical gradient set by the Na⁺/K⁺ pump. Exclusively recognizes sugar substrates having a pyranose ring with an axial hydroxyl group on carbon 2 (PubMed:24573086, PubMed:22212718, PubMed:23451068). Has likely evolved to enable renal reabsorption of D-mannose, an important constituent of oligosaccharide chains of glycoproteins. Contributes to dietary D-fructose reabsorption from glomerular filtrate across the brush border of the kidney (PubMed:22212718, PubMed:23451068).

Target Details

{ECO:0000269|PubMed:22212718, ECO:0000269|PubMed:23451068, ECO:0000269|PubMed:24573086}., FUNCTION: [Isoform 2]: Appears to have no transporter activity. {ECO:0000269|PubMed:22212718}.

Molecular Weight: 64.3 kDa

UniProt: [A0PJK1](#)

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