

Datasheet for ABIN7557550

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



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### Overview

Quantity:	1 mg
Target:	SLC5A10
Protein Characteristics:	AA 1-596
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC5A10 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Purpose:	Custom-made recombinat Slc5a10 Protein expressed in mammalian cells.
Sequence:	<p>MAGNSTGDAH VPGSQLSVTD IIVISVYFAL NVAVGIEWSAC RANKNTVSGY FLAGRDMAWW          PIGASLFASS EGSGLFVGLA GSGAAGGLAV AGFEWNATYV LLALAWVFVP IYISSEIVTL          PEYIQKRFGG QRIRTYLSVL SLMLSVFTKI SIDLYAGALF VHICLGWNFY LSTILTIAIT ALYTIAGGLA          TVIYTDALQT IIMVVGAVIL AVKAFNQIGG YEQLEAAYAQ AIPSRTIPNT TCHLPRADAM          HMFDPSTGD LPWTGMTFGL TIMATWYWCT DQVIVQRSLS ARNLNHAKAG SILASYLKML          PMGLMIMPGM ISRVLPDDV GCVVPSECLR ACGAEIGCSN IAYPKLVMEI MPIGLRGLMI          AVMMAALLSS LTSIFNSSST LFTMDIWRQL RPSAGERELL LVGRLVIVVL IGVSVAWIPV          LQGSNSGQLF IYMQSVTSSL APPVTAIFIL GIFWRRANEQ GAFWGLMAGL VVGALRLVLE          FLYPEPPCGQ IDTRPAPLRS LHYLHFAIAL FLLTCAVMAA GSLLSPPPQQ RQIENLTWWT          LAPNWSLGTK TGDGQTPQKR AFWARVCNVN AIFLMCVNIF FYAYFA <b>Sequence without tag.</b></p> <p><b>The proposed Purification-Tag is based on experiences with the expression system, a</b></p>

**different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	SLC5A10
Alternative Name:	Slc5a10 ( <a href="#">SLC5A10 Products</a> )
Background:	<p>Sodium/mannose cotransporter SLC5A10 (Sodium/glucose cotransporter 5) (Na<sup>+</sup>)/glucose cotransporter 5) (Solute carrier family 5 member 10),FUNCTION: Electrogenic Na<sup>+</sup>-coupled sugar symporter that actively transports D-mannose or D-fructose at the plasma membrane, with a Na<sup>+</sup> to sugar coupling ratio of 1:1. Transporter activity is driven by a transmembrane Na<sup>+</sup> electrochemical gradient set by the Na<sup>+</sup>/K<sup>+</sup> pump. Exclusively recognizes sugar substrates having a pyranose ring with an axial hydroxyl group on carbon 2 (PubMed:23451068) (By similarity). 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:23451068) (By similarity). {ECO:0000250 UniProtKB:A0PJK1, ECO:0000269 PubMed:23451068}.</p>

## Target Details

Molecular Weight: 64.7 kDa

UniProt: [Q5SWY8](#)

## 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