

Datasheet for ABIN7564614

## Solute Carrier Family 5 (Sodium/inositol Cotransporter), Member 11 (SLC5A11) (AA 1-673) protein (His tag)



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### Overview

Quantity:	1 mg
Target:	Solute Carrier Family 5 (Sodium/inositol Cotransporter), Member 11 (SLC5A11)
Protein Characteristics:	AA 1-673
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Purpose:	Custom-made recombinat Slc5a11 Protein expressed in mammalian cells.
Sequence:	<p>MESATISPQP PQSDSLEAFP QKSMEPADIA VLVLYFLFVL AVGLWSTVRT KRDTVKG YFL</p> <p>AGGDMVWWPV GASLFASNVG SGHFIGLAGS GAAVGISVAA YELNGLFSVL MLAWVFLPIY</p> <p>IAGQVTMPE YLRRRFGGNR ISITLAVLYL FIYFTKISV DMYAGAIFIQ QSLHLDLYLA IVGLLAITAI</p> <p>YTVAGGLAAV IYTDALQTVI MLIGAFILMG YSFAAVGGME GLKDQYFLAL ASNRSENSSC</p> <p>GLPREDAFHI FRDPLTSDLP WPGILFGMSI PSLWYWCTDQ VIVQRSIAAK NLSHAKGGSL</p> <p>MAAYLKVLPL FLMVFPGMVS RVLFPDQVAC AHPDICQRVC SNPSGCSDIA YPKLVLELLP</p> <p>TGLRGLMMAV MVAALMSSLT SIFNSASTIF TMDLWNHIRP RASERELMIV GRIFVFALVL</p> <p>VSILWIPIVQ ASQGGQLFIY IQSISSYLQP PVAMVFIMGC FWKRTNEKGA FSGLILGLLL</p> <p>GLVRLILDFV YAQPRCDQPD DRPAVVKDVH YLYFSMILSF TTLITVVTVS WFTETPSKEM</p> <p>VSRLTWFTRH EPVAQKDSAP PETPLSLTLS QNGTTEAPGT SIQLETVQES TTKACGDGVS</p> <p>PRHSKVVRAL LWLCGMEKNK EEPSPKAEPV IVSLEENPLV KTLLEDVNCIV CISCAIFLWG YFA</p>

**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:

Solute Carrier Family 5 (Sodium/inositol Cotransporter), Member 11 (SLC5A11)

### Alternative Name:

Slc5a11 ([SLC5A11 Products](#))

### Background:

Sodium/myo-inositol cotransporter 2 (Na<sup>+</sup>)/myo-inositol cotransporter 2) (Sodium-dependent glucose cotransporter) (Sodium/glucose cotransporter KST1) (Sodium/myo-inositol transporter 2) (SMIT2) (Solute carrier family 5 member 11), FUNCTION: Involved in the sodium-dependent cotransport of myo-inositol (MI) with a Na<sup>+</sup>:MI stoichiometry of 2:1. Exclusively responsible for apical MI transport and absorption in intestine. Can also transport D-chiro-inositol (DCI) but not L-fucose (By similarity). Exhibits stereospecific cotransport of both D-glucose and D-xylose (By similarity). May induce apoptosis through the TNF-alpha, PDCD1 pathway (By similarity). May play a role in the regulation of MI concentration in serum, involving reabsorption in at least the proximal tubule of the kidney (By similarity).  
{ECO:0000250|UniProtKB:Q28728, ECO:0000250|UniProtKB:Q8WWX8}.

## Target Details

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Molecular Weight: 73.8 kDa

UniProt: [Q8K0E3](#)

## Application Details

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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

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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