

Datasheet for ABIN7555450  
**SLC5A12 Protein (AA 1-618) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SLC5A12
Protein Characteristics:	AA 1-618
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC5A12 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SLC5A12 Protein expressed in mammalian cells.
Sequence:	MEVKNFVWD YVFAALFFI SSGIGVFFAI KERKATSRE FLVGGRQMSF GPVGLSLTAS FMSAVTVLGT PSEVYRFGAS FLVFFIAYLF VILLTSELFL PVFYRSGITS TYEYLQLRFN KPVRYAATVI YIVQTILYTG VVYAPALAL NQVTGFDLWG SVFATGIVCT FYCTLGGLKA VWWTDAFQMV VMIVGFLTVL IQGSTHAGGF HNVLEQSTNG SRLHIFDFDV DPLRRHTFWT ITVGGTFTWL GIYGVNQSTI QRCISCKTEK HAKLALYFNL LGLWIILVCA VFSGLIMYSH FKDCDPWTSG IISAPDQLMP YFVMEIFATM PGLPGLFVAC AFSGLTSTVA SSINALATVT FEDFKSCFP HLSDKLSTWI SKGLCLLFGV MCTSMVAAS VMGGVVQASL SIHGMCGGPM LGLFSLGIVF PFVNWKGALG GLLTGITLSF WVAIGAFIYP APASKTWPLP LSTDQCICKSN VTATGPPVLS SRPGIADTWY SISYLYYSAV GCLGCIVAGV IISLITGRQR GEDIQPLLIR PVCNLFCFWS KKYKTLWCWG VQHDSGTEQE NLENGSARKQ GAESVLQNGL RRESLVHVP YDPKDKSYNN MAFETTHF <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make</b>

## Product Details

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**another tag necessary. In case you have a special request, please contact us.**

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**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.

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**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.

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**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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**Grade:** custom-made

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## Target Details

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**Target:** SLC5A12

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**Alternative Name:** SLC5A12 ([SLC5A12 Products](#))

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**Background:** Sodium-coupled monocarboxylate transporter 2 (Electroneutral sodium monocarboxylate cotransporter) (Low-affinity sodium-lactate cotransporter) (Solute carrier family 5 member 12),FUNCTION: Acts as an electroneutral and low-affinity sodium (Na(+))-dependent sodium-coupled solute transporter (PubMed:17692818). Catalyzes the transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, nicotinate, propionate, butyrate and beta-D-hydroxybutyrate (By similarity). May be responsible for the first step of reabsorption of monocarboxylates from the lumen of the proximal tubule of the kidney and the small intestine. May play also a role in monocarboxylates transport in the retina (By similarity). {ECO:0000250|UniProtKB:Q49B93, ECO:0000250|UniProtKB:Q7T384, ECO:0000269|PubMed:17692818}.

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## Target Details

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Molecular Weight: 67.6 kDa

UniProt: [Q1EHB4](#)

## Application Details

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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

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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