

Datasheet for ABIN7555344  
**SLC19A1 Protein (AA 1-591) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SLC19A1
Protein Characteristics:	AA 1-591
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC19A1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SLC19A1 Protein expressed in mammalian cells.
Sequence:	<p>MVPSSPAVEK QVPVEPGDPD ELRSWRHLVC YLCFYGFMAQ IRPGESFITP YLLGPDKNFT REQVTNEITP VLSYSYLA VL VPVFLLDY L RYTPVLLLQ L S FVSVWLLL LLGHSVAHMQ LMELFY SVTM AARIAYSSYI FSLVRPARYQ RVAGYSRAAV LLGVFTSSVL GQLLVTVGRV SFSTLNYISL AFLTFSVLA LFLKRPK RSL FFNRDDRGR C ETSASELERM NPGPGGKLG H ALRVACGDSV LARMLRELGD SLRRPQLRLW SLWWVFNSAG YYLVVYYVHI LWNEVDPTTN SARVYNGAAD AASTLLGAIT SFAAGFVKIR WARWSKLLIA GVTATQAGLV FLLAHRHPS SIWLCYAAFV LFRGSYQFLV PIATFQIASS LSKELCALVF GVNTFFATIV KTIITFIVSD VRGLGLPVRK QFQLYSVYFL ILSIYFLGA MLDGLRHQR GHHP RQPPAQ GLRSAAEEKA AQALSVQDKG LGGLQPAQSP PLSPEDSLGA VGPASLEQRQ SDPYLAQAPA PQA AEFLSPV TTPSPCTLCS AQASGPEAAD ETCPLAVHP PGVSKLGLQC LPSDGVQNVN Q <b>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</b></p>

## Product Details

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### **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

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**Target:** SLC19A1

**Alternative Name:** SLC19A1 ([SLC19A1 Products](#))

**Background:** Reduced folate transporter (FOLT) (Cyclic dinucleotide:anion antiporter SLC19A1) (Folate:anion antiporter SLC19A1) (Intestinal folate carrier 1) (IFC-1) (Placental folate transporter) (Reduced folate carrier protein) (RFC) (hRFC) (Reduced folate transporter 1) (RFT-1) (Solute carrier family 19 member 1) (hSLC19A1),FUNCTION: Antiporter that mediates the import of reduced folates or a subset of cyclic dinucleotides, driven by the export of organic anions (PubMed:7826387, PubMed:9041240, PubMed:10787414, PubMed:15337749, PubMed:16115875, PubMed:22554803, PubMed:31511694, PubMed:31126740, PubMed:32276275). Mechanistically, acts as a secondary active transporter, which exports intracellular organic anions down their concentration gradients to facilitate the uptake of its substrates (PubMed:22554803, PubMed:31511694, PubMed:31126740). Has high affinity for N5-

## Target Details

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methyltetrahydrofolate, the predominant circulating form of folate (PubMed:10787414, PubMed:14609557, PubMed:22554803). Also able to mediate the import of antifolate drug methotrexate (PubMed:7615551, PubMed:7641195, PubMed:9767079, PubMed:22554803). Also acts as an importer of immunoreactive cyclic dinucleotides, such as cyclic GMP-AMP (2'-3'-cGAMP), an immune messenger produced in response to DNA virus in the cytosol, and its linkage isomer 3'-3'-cGAMP, thus playing a role in triggering larger immune responses (PubMed:31511694, PubMed:31126740). 5-amino-4-imidazolecarboxamide riboside (AICAR), when phosphorylated to AICAR monophosphate, can serve as an organic anion for antiporter activity (PubMed:22554803). {ECO:0000269|PubMed:10787414, ECO:0000269|PubMed:14609557, ECO:0000269|PubMed:15337749, ECO:0000269|PubMed:16115875, ECO:0000269|PubMed:22554803, ECO:0000269|PubMed:31126740, ECO:0000269|PubMed:31511694, ECO:0000269|PubMed:32276275, ECO:0000269|PubMed:7615551, ECO:0000269|PubMed:7641195, ECO:0000269|PubMed:7826387, ECO:0000269|PubMed:9041240, ECO:0000269|PubMed:9767079}.

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Molecular Weight: 64.9 kDa

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UniProt: [P41440](#)

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Pathways: [Dicarboxylic Acid Transport](#)

## 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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months