

Datasheet for ABIN7551614

SLC22A11 Protein (AA 1-550) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	SLC22A11
Protein Characteristics:	AA 1-550
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC22A11 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC22A11 Protein expressed in mammalian cells.
Sequence:	<p>MAFSKLLEQA GGVGLFQTLQ VLTFILPCLM IPSQMLENF SAAIPGHRGW THMLDNGSAV STNMTPKALL TISIPPGPNQ GPHQCRRFRQ PQWQLDPNA TATSWSEADT EPCVDGWVYD RSVFTSTIVA KWDLVCSSQG LKPLSQSIFM SGILVGSFIW GLLSYRFGRK PMLSWCCLQL AVAGTSTIFA PTFVIYCGLR FVAAFGMAGI FLSSLTLMVE WTTTSRRAVT MTVVGCAFSA GQAALGGLAF ALRDWRTLQL AASVPFFAIS LISWWLPESA RWLIK GKPD QALQELRKVA RINGHKEAKN LTIEVLMSSV KEEVASAKEP RSVLDLFCVP VLRWRSCAML VVNFSLISY YGLVFDLQSL GRDIFLLQAL FGAVDFLGRA TTALLSFLG RRTIQAGSQA MAGLAILANM LVPQDLQTLR VVFAVLGKGC FGISLTCLTI YKAELFPTPV RMTADGILHT VGRLGAMMGP LILMSRQALP LLPPLLYGVI SIASSLVVLF FLPETQGLPL PDTIQDLESQ KSTAAQGNRQ EAVTVESTSL 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.</p>

Product Details

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: SLC22A11

Alternative Name: SLC22A11 ([SLC22A11 Products](#))

Background: Solute carrier family 22 member 11 (Organic anion transporter 4) (OAT4) (Organic anion:dicarboxylate exchanger OAT4),FUNCTION: Antiporter that mediates the transport of conjugated steroids and other specific organic anions at the basal membrane of syncytiotrophoblast and at the apical membrane of proximal tubule epithelial cells, in exchange for anionic compounds (PubMed:10660625, PubMed:11907186, PubMed:15291761, PubMed:15037815, PubMed:15102942, PubMed:15576633, PubMed:17229912, PubMed:18501590, PubMed:26277985, PubMed:28027879). May be responsible for placental absorption of fetal-derived steroid sulfates such as estrone sulfate (E1S) and the steroid hormone precursor dehydroepiandrosterone sulfate (DHEA-S), as well as clearing waste products and xenobiotics from the fetus (PubMed:12409283). Maybe also be involved in placental urate homeostasis (PubMed:17229912). Facilitates the renal reabsorption of organic

Target Details

anions such as urate and derived steroid sulfates (PubMed:15037815, PubMed:17229912). Organic anion glutarate acts as conteranion for E1S renal uptake (PubMed:15037815, PubMed:17229912). Possible transport mode may also include DHEA-S/E1S exchange (PubMed:28027879). Also interacts with inorganic anions such as chloride and hydroxyl ions, therefore possible transport modes may include E1S/Cl(-), E1S/OH(-), urate/Cl(-) and urate/OH(-) (PubMed:17229912). Also mediates the transport of prostaglandin E2 (PGE2) and prostaglandin F2-alpha (PGF2-alpha) and may be involved in their renal excretion (PubMed:11907186). Also able to uptake anionic drugs, diuretics, bile salts and ochratoxin A (PubMed:10660625, PubMed:26277985). Mediates the unidirectional efflux of glutamate and aspartate (PubMed:28027879). Glutamate efflux down its transmembrane gradient may drive SLC22A11/OAT4-mediated placental uptake of E1S (PubMed:26277985). {ECO:0000269|PubMed:10660625, ECO:0000269|PubMed:11907186, ECO:0000269|PubMed:12409283, ECO:0000269|PubMed:15037815, ECO:0000269|PubMed:15102942, ECO:0000269|PubMed:15291761, ECO:0000269|PubMed:15576633, ECO:0000269|PubMed:17229912, ECO:0000269|PubMed:18501590, ECO:0000269|PubMed:26277985, ECO:0000269|PubMed:28027879, ECO:0000303|PubMed:17229912}.

Molecular Weight: 60.0 kDa

UniProt: [Q9NSA0](#)

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