

Datasheet for ABIN7555381
SLC22A7 Protein (AA 1-548) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC22A7
Protein Characteristics:	AA 1-548
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC22A7 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC22A7 Protein expressed in mammalian cells.
Sequence:	<p>MGFEELLEQV GGFGPFQLRN VALLALPRVL LPLHFLLPIF LAAVPAHRCA LPGAPANFSH QDVWLEAHLR REPDGTLSSC LRFAYPQALP NTTLGEERQS RGELEDEPAT VPCSQGW EYD HSEFSSTIAT ESQWDLVCEQ KGLNRAASTF FFAGVLVGAV AFGYLSDRFG RRRLLL VAYV STLVLGLASA ASVSYVMFAI TRTLTGSALA GFTIIVMPLE LEWLDVEHRT VAGVLSSTFW TGGVMLLALV GYLIRDWRWL LLAVTLPCAP GILSLWWVPE SARWLLTQGH VKEAHRYLLH CARLNGRPVC EDSFSQEAVS KVAAGERVVR RPSYLDLFR T PRLRHISLCC VWWFGVNFS YYGLSLDVSG LGLNVYQ TQL LFGAVELPSK LLVYLSVRYA GRRLTQAGTL LGTALAFGTR LLVSSDMKSW STVLAVMGKA FSEAAFTTAY LFTSELYPTV LRQTGMGLTA LVGRLGGSLA PLAALLDG VV LSLPKLTYGG IALLAAGTAL LLPETRQAQL PETIQDVERK SAPTSLQEEE MPMKQVQN 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: SLC22A7

Alternative Name: SLC22A7 ([SLC22A7 Products](#))

Background: Solute carrier family 22 member 7 (Novel liver transporter) (NLT) (Organic anion transporter 2) (hOAT2),FUNCTION: [Isoform 2]: Functions as a Na(+)-independent bidirectional multispecific transporter (PubMed:11327718, PubMed:18216183, PubMed:21446918, PubMed:28945155). Contributes to the renal and hepatic elimination of endogenous organic compounds from the systemic circulation into the urine and bile, respectively (PubMed:11327718, PubMed:25904762). Capable of transporting a wide range of purine and pyrimidine nucleobases, nucleosides and nucleotides, with cGMP, 2'deoxyguanosine and GMP being the preferred substrates (PubMed:11327718, PubMed:18216183, PubMed:26377792, PubMed:28945155). Functions as a pH - and chloride-independent cGMP bidirectional facilitative transporter that can regulate both intracellular and extracellular levels of cGMP and may be involved in cGMP signaling pathways (PubMed:18216183, PubMed:26377792).

Target Details

Mediates orotate/glutamate bidirectional exchange and most likely display a physiological role in hepatic release of glutamate into the blood (PubMed:21446918). Involved in renal secretion and possible reabsorption of creatinine (PubMed:25904762, PubMed:28945155). Able to uptake prostaglandin E2 (PGE2) and may contribute to PGE2 renal excretion (Probable). Also transports alpha-ketoglutarate and urate (PubMed:11327718, PubMed:26377792). Apart from the orotate/glutamate exchange, the counterions for the uptake of other SLC22A7/OAT2 substrates remain to be identified (PubMed:26377792). {ECO:0000269|PubMed:11327718, ECO:0000269|PubMed:18216183, ECO:0000269|PubMed:21446918, ECO:0000269|PubMed:25904762, ECO:0000269|PubMed:26377792, ECO:0000269|PubMed:28945155, ECO:0000305|PubMed:11907186}., FUNCTION: [Isoform 1]: Non functional transporter. {ECO:0000269|PubMed:18216183, ECO:0000269|PubMed:26500550}., FUNCTION: [Isoform 3]: Involved in the uptake of prostaglandin F2-alpha (PGF2-alpha). {ECO:0000269|PubMed:12023506}.

Molecular Weight: 60.0 kDa

UniProt: [Q9Y694](#)

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