

Datasheet for ABIN7555597

SLC04A1 Protein (AA 1-722) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC04A1 (OATP-E)
Protein Characteristics:	AA 1-722
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC04A1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC04A1 Protein expressed in mammalian cells.
Sequence:	MPLHQLGDKP LTFPSPNSAM ENGLDHTPPS RRASPGTPLS PGSLSAAHS PLDTSKQPLC QLWAEKHGAR GTHEVRYVSA GQSVACGWWA FAPPCLQVLN TPKGILFFLC AAAFLQGMTV NGFINTVITS LERRYDLHSY QSGLIASSYD IAACLCLTFV SYFGGSGHKP RWLGWGVLLM GTGSLVFALP HFTAGRYEVE LDAGVRTCPA NPGAVCADST SGLSRYQLVF MLGQFLHGVG ATPLYTLGVT YLDENVKSSC SPVYIAIFYT AAILGPAAGY LIGGALLNIY TEMGRRTLT TESPLWVGAW WVGFLGSGAA AFFTAVPILG YPRQLPGSQR YAVMRAAEMH QLKDSSRGEA SNPDFGKTIR DLPLSIWLLL KNPTFILLCL AGATEATLIT GMSTFSPKFL ESQFSLSASE AATLFGYLVV PAGGGGTFLG GFFVNKLRLR GSAVIKFLC CTVVSLLGIL VFSLHCPSPV MAGVTASYGG SLLPEGHLNL TAPCNAACSC QPEHYSPVCG SDGLMYFSLC HAGCPAATET NVDGQKVYRD CSCIPQNLSS GFGHATAGKC TSTCQRKPLL LVFIFVVIFF TFLSSIPALT ATLRCVRDPQ RSFALGIQWI VVRILGGIPG PIAFGWVIDK ACLLWQDQCG QQGSCLVYQN SAMSRYLIM GLLYKVLGVL FFAIACFLYK PLESSDGLT TCLPSQSSAP DSATDSQLQS SV

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.

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: SLC04A1 (OATP-E)

Alternative Name: SLC04A1 ([OATP-E Products](#))

Background: Solute carrier organic anion transporter family member 4A1 (OATP4A1) (Colon organic anion transporter) (Organic anion transporter polypeptide-related protein 1) (OATP-RP1) (OATPRP1) (POAT) (Organic anion-transporting polypeptide E) (OATP-E) (Sodium-independent organic anion transporter E) (Solute carrier family 21 member 12),FUNCTION: Organic anion antiporter with apparent broad substrate specificity. Recognizes various substrates including thyroid hormones 3,3',5-triiodo-L-thyronine (T3), L-thyroxine (T4) and 3,3',5'-triiodo-L-thyronine (rT3), conjugated steroids such as estrone 3-sulfate and estradiol 17-beta glucuronide, bile acids such as taurocholate and prostanoids such as prostaglandin E2, likely operating in a tissue-

Target Details

specific manner (PubMed:10873595, PubMed:19129463, PubMed:30343886). May be involved in uptake of metabolites from the circulation into organs such as kidney, liver or placenta. Possibly drives the selective transport of thyroid hormones and estrogens coupled to an outward glutamate gradient across the microvillous membrane of the placenta (PubMed:30343886). The transport mechanism, its electrogenicity and potential tissue-specific counterions remain to be elucidated (Probable). {ECO:0000269|PubMed:10873595, ECO:0000269|PubMed:19129463, ECO:0000269|PubMed:30343886, ECO:0000305}.

Molecular Weight:	77.2 kDa
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UniProt:	Q96BD0
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Pathways:	Hormone Transport
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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.
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Restrictions:	For Research Use only
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Handling

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
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