Datasheet for ABIN7555560

SLCO1B1 Protein (AA 1-691) (His tag)

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Overview

Quantity:	1 mg
Target:	SLCO1B1
Protein Characteristics:	AA 1-691
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLCO1B1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLCO1B1 Protein expressed in mammalian cells.
Sequence:	MDQNQHLNKT AEAQPSENKK TRYCNGLKMF LAALSLSFIA KTLGAIIMKS SIIHIERRFE ISSSLVGFID GSFEIGNLLV IVFVSYFGSK LHRPKLIGIG CFIMGIGGVL TALPHFFMGY YRYSKETNIN SSENSTSTLS TCLINQILSL NRASPEIVGK GCLKESGSYM WIYVFMGNML RGIGETPIVP LGLSYIDDFA KEGHSSLYLG ILNAIAMIGP IIGFTLGSLF SKMYVDIGYV DLSTIRITPT DSRWVGAWWL NFLVSGLFSI ISSIPFFFLP QTPNKPQKER KASLSLHVLE TNDEKDQTAN LTNQGKNITK NVTGFFQSFK SILTNPLYVM FVLLTLLQVS SYIGAFTYVF KYVEQQYGQP SSKANILLGV ITIPIFASGM FLGGYIIKKF KLNTVGIAKF SCFTAVMSLS FYLLYFFILC ENKSVAGLTM TYDGNNPVTS HRDVPLSYCN SDCNCDESQW EPVCGNNGIT YISPCLAGCK SSSGNKKPIV FYNCSCLEVT GLQNRNYSAH LGECPRDDAC TRKFYFFVAI QVLNLFFSAL GGTSHVMLIV KIVQPELKSL ALGFHSMVIR ALGGILAPIY FGALIDTTCI KWSTNNCGTR GSCRTYNSTS FSRVYLGLSS MLRVSSLVLY IILIYAMKKK YQEKDINASE NGSVMDEANL ESLNKNKHFV PSAGADSETH C **Sequence without tag. The proposed Purification-Tag is**

Product Details

	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:	SLCO1B1
Alternative Name:	SLCO1B1 (SLCO1B1 Products)
Background:	Solute carrier organic anion transporter family member 1B1 (SLCO1B1) (Liver-specific organic anion transporter 1) (LST-1) (OATP-C) (Organic anion transporter SLC21A6) (Sodium-independent organic anion-transporting polypeptide 2) (OATP-2) (Solute carrier family 21 member 6),FUNCTION: Mediates the Na(+)-independent uptake of organic anions (PubMed:10358072, PubMed:15159445, PubMed:17412826). Shows broad substrate specificity, can transport both organic anions such as bile acid taurocholate (cholyltaurine) and conjugated steroids (dehydroepiandrosterone 3-sulfate, 17-beta-glucuronosyl estradiol, and estrone 3-sulfate), as well as eicosanoids (prostaglandin E2, thromboxane B2, leukotriene C4, and leukotriene E4), and thyroid hormones (T4/L-thyroxine, and T3/3,3',5'-triiodo-L-thyronine)

Target Details

	(PubMed:10358072, PubMed:10601278, PubMed:10873595, PubMed:12568656, PubMed:15159445, PubMed:15970799, PubMed:16627748, PubMed:17412826, PubMed:12196548, PubMed:11159893, PubMed:19129463, PubMed:26979622). Can take up bilirubin glucuronides from plasma into the liver, contributing to the detoxification-enhancing liver-blood shuttling loop (PubMed:22232210). Involved in the clearance of endogenous and exogenous substrates from the liver (PubMed:10358072, PubMed:10601278). Transports coproporphyrin I and III, by-products of heme synthesis, and may be involved in their hepatic disposition (PubMed:26383540). May contribute to regulate the transport of organic compounds in testes across the blood-testis-barrier (Probable). Can transport HMG-CoA reductase inhibitors (also known as statins), such as pravastatin and pitavastatin, a clinically important class of hypolipidemic drugs (PubMed:10601278, PubMed:15970799, PubMed:15159445). May play an important role in plasma and tissue distribution of the structurally diverse chemotherapeutic drug methotrexate (PubMed:23243220). May also transport antihypertension agents, such as the angiotensin-converting enzyme (ACE) inhibitor prodrug enalapril, and the highly selective angiotensin II AT1-receptor antagonist valsartan, in the liver (PubMed:16627748, PubMed:16624871). Shows a pH -sensitive substrate specificity towards prostaglandin E2 and T4 which may be ascribed to the protonation state of the binding site and leads to a stimulation of substrate transport in an acidic microenvironment (PubMed:19129463). Hydrogencarbonate/HCO3(-) acts as the probable counteranion that exchanges for organic anions (PubMed:19129463). {ECO:0000269|PubMed:10358072, ECO:0000269|PubMed:10601278, ECO:0000269|PubMed:10873595, ECO:0000269|PubMed:11159893, ECO:0000269|PubMed:12196548, ECO:0000269|PubMed:12568656, ECO:0000269|PubMed:15159445, ECO:0000269|PubMed:15970799, ECO:0000269|PubMed:16624871, ECO:0000269|PubMed:16627748, ECO:0000269|PubMed:17412826, ECO:0000269|PubMed:19129463, ECO:0000269|PubMed:22232210, ECO:0000269|PubMed:23243220, ECO:0000269|PubMed:26383540, ECO:0000269|PubMed:26979622, ECO:0000305|PubMed:35307651}.
Molecular Weight:	76.4 kDa
UniProt:	Q9Y6L6

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.

Application Details

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

