Datasheet for ABIN7555512

SLCO1C1 Protein (AA 1-712) (His tag)

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Overview

Quantity:	1 mg
Target:	SLCO1C1
Protein Characteristics:	AA 1-712
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLCO1C1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SLCO1C1 Protein expressed in mammalien cells.
Sequence:	MDTSSKENIQ LFCKTSVQPV GRPSFKTEYP SSEEKQPCCG ELKVFLCALS FVYFAKALAE GYLKSTITQI ERRFDIPSSL VGVIDGSFEI GNLLVITFVS YFGAKLHRPK IIGAGCVIMG VGTLLIAMPQ FFMEQYKYER YSPSSNSTLS ISPCLLESSS QLPVSVMEKS KSKISNECEV DTSSSMWIYV FLGNLLRGIG ETPIQPLGIA YLDDFASEDN AAFYIGCVQT VAIIGPIFGF LLGSLCAKLY VDIGFVNLDH ITITPKDPQW VGAWWLGYLI AGIISLLAAV PFWYLPKSLP RSQSREDSNS SSEKSKFIID DHTDYQTPQG ENAKIMEMAR DFLPSLKNLF GNPVYFLYLC TSTVQFNSLF GMVTYKPKYI EQQYGQSSSR ANFVIGLINI PAVALGIFSG GIVMKKFRIS VCGAAKLYLG SSVFGYLLFL SLFALGCENS DVAGLTVSYQ GTKPVSYHER ALFSDCNSRC KCSETKWEPM CGENGITYVS ACLAGCQTSN RSGKNIIFYN CTCVGIAASK SGNSSGIVGR CQKDNGCPQM FLYFLVISVI TSYTLSLGGI PGYILLLRCI KPQLKSFALG IYTLAIRVLA GIPAPVYFGV LIDTSCLKWG FKRCGSRGSC RLYDSNVFRH IYLGLTVILG TVSILLSIAV LFILKKNYVS KHRSFITKRE

Product Details

	RTMVSTRFQK ENYTTSDHLL QPNYWPGKET QL **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.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	SLCO1C1
Alternative Name:	SLCO1C1 (SLCO1C1 Products)
Background:	Solute carrier organic anion transporter family member 1C1 (Organic anion transporter 1C1) (OATP1C1) (Organic anion transporter F) (OATP-F) (Organic anion transporter polypeptide-related protein 5) (OAT-RP-5) (OATP-RP5) (Organic anion-transporting polypeptide 14) (OATP-14) (Solute carrier family 21 member 14) (Thyroxine transporter),FUNCTION: Mediates the Na(+)-independent high affinity transport of organic anions such as the thyroid hormones L-thyroxine (T4), L-thyroxine sulfate (T4S), and 3,3',5'-triiodo-L-thyronine (reverse T3, rT3) at the plasma membrane (PubMed:12351693, PubMed:18566113, PubMed:19129463). Regulates T4 levels in different brain regions by transporting T4, and also by serving as an export pump for T4S, which is a source of T4 after hydrolysis by local sulfatases (PubMed:18566113). Increases

Target Details

	the access of these substrates to the intracellular sites where they are metabolized by the deiodinases (PubMed:18566113). Other potential substrates, such as triiodothyronine (T3), 17-beta-glucuronosyl estradiol (17beta-estradiol 17-O-(beta-D-glucuronate)), estrone-3-sulfate (E1S) and sulfobromophthalein (BSP) are transported with much lower efficiency (PubMed:12351693, PubMed:19129463). Transports T4 and E1S in a pH -insensitive manner (PubMed:19129463). Facilitates the transport of thyroid hormones across the blood-brain barrier and into glia and neuronal cells in the brain (PubMed:30296914). {ECO:0000269|PubMed:12351693, ECO:0000269|PubMed:18566113, ECO:0000269|PubMed:19129463, ECO:0000269|PubMed:30296914}.
Molecular Weight:	78.7 kDa
UniProt:	Q9NYB5

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. 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