

Datasheet for ABIN7559425

SLC04A1 Protein (AA 1-723) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC04A1 (OATP-E)
Protein Characteristics:	AA 1-723
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC04A1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Slco4a1 Protein expressed in mammalian cells.
Sequence:	<p>MPQHAMDGTH FLSLPKHLFT STSSATDSGC DTPPSSRASP ASLRSAHGTL GSSSQPLFEP</p> <p>QAEKRSSQTA REVQYVSSGP QNSLCGWQAF TPKCLQVFNT PKGFLFFLCA ASFLQGMTVN</p> <p>GFINTVITSI ERRFDLHSYQ SGLIASSYDI AACLCLTFVS YFGGNGHKPR WLGWGVLVLG</p> <p>IGSLVFALPH FTAGRYEVEM DEGLGTGTCL TNQSHVECKD SASGLSNYRL IFMLGQLLHG</p> <p>VGATPLYTLG VTYLDENVKS SYSPIYIAIF YTAAILGPAA GYLIGGAMLN VYTEVGQRTE</p> <p>LTDSPLWVG AWWIGFLGTG IAAFLIAPI LGYPRQLPGS QRYVVMRAAE TQQLKDHSRG</p> <p>AVSNPAFGKT VRDLPLSIWL LLRNPTFILL CLAGATEATL IAGMSTFGPK FFEAQFSLSA</p> <p>SEAATLFGYL VVPAGGGGTL LGGFLVNKFK LRSGGIIRFC LFCTLTSLLA FFVFLMHCPN</p> <p>VHMAGVTTGY VGSLLPKGQL DLKAACNAIY CCQPKHYSPL CGSDGTMYYSPCYAGCPADA</p> <p>ETDLGGQKVY RGCSCILEKA SSGWGNATAG KCASTCQSKP FLLVLVFFVI IFTFLSSIPA</p> <p>LTATLRCVSD RQRSFALGIQ WIVVRTLGSIPGPIAFGWVI DKACLLWQDQ CGHQGSCFVY</p>

ENEAMSRVML IAGLTFKVLG FLFFVAAYFL YKSPSVSSDG LEASLPSQSS ASDSPTEQLQ SNV

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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	SLCO4A1 (OATP-E)
Alternative Name:	Slco4a1 (OATP-E Products)
Background:	<p>Solute carrier organic anion transporter family member 4A1 (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-specific manner (By similarity). May be involved in uptake of metabolites from the circulation into organs such as kidney, liver or placenta.</p> <p>Possibly drives the selective transport of thyroid hormones and estrogens coupled to an</p>

Target Details

	outward glutamate gradient across the microvillous membrane of the placenta (By similarity). The transport mechanism, its electrogenicity and potential tissue-specific counterions remain to be elucidated (Probable). {ECO:0000250 UniProtKB:Q96BD0, ECO:0000305}.
Molecular Weight:	77.7 kDa
UniProt:	Q8K078
Pathways:	Hormone Transport

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