

Datasheet for ABIN7565048

## SLC01C1 Protein (AA 1-715) (His tag)



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### Overview

Quantity:	1 mg
Target:	SLC01C1
Protein Characteristics:	AA 1-715
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC01C1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Purpose:	Custom-made recombinat Slco1c1 Protein expressed in mammalian cells.
Sequence:	<p>MDTSSKENAH LFHKNSAQPA GGPSFTVGYP STEEARPCCG KLVFLGALS FVYFAKALAE</p> <p>GYLKSTVTQI ERRFEIPSSL VGIIDGSFEI GNLLVITFVS YFGAKLHRPK IIGAGCLVMG</p> <p>FGTMLIAVPQ FFMEKYSYEK YERYSPSSNV TPSISPCYLE SSSPSPSSIL GKSQNKISHE</p> <p>CVGDSSSSMW VYVFLGNLLR GLGETPIQPL GIAYLDDFAS EDNAAFYIGC VQTVAIIGPI</p> <p>FGFLLGSLCA KLYVDIGFVN LDHITITPKD PQWVGAWWLG YLIAGFLSLL AAVPFWCPLK</p> <p>TLPRSQSREN SGSTSEKSKF IDDPHIYQMA PGDDKMKIME MAKDFLPSLK TLFRNPVYIL</p> <p>YLCASTVQFN SLFGMVITYKP KYIEQQYGQS SSKANFVIGL INIPAVALGI FSGGIVMKKF</p> <p>RLGICEATKL YLGSSVFGYL LFLSLFALGC ENSSVAGLTV SYQGTPVSY HERALFSDCN</p> <p>SRCKCSDSKW EPMCGDNGIT YVSACLAGCQ SSSRSGKNII FSNCTCVGFA APKSGNWSGM</p> <p>MGRQCQDNGC SQMFLYFLVI SVITSYTLSL GGIPGYILLL RCIQPQLKSF ALGIYTLAVR</p> <p>VLAGIPAPVY FGVLIDTSL KWGFKKCGSR GSCRLYDASHA FRHIYLGTT LLGTVSVFSL</p>

MAVLFLVKKK YVSKHSSLIT TREKIGMSSS IKKETCAARD RGLQPKYWPG KETRL **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"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <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:	SLC01C1
Alternative Name:	Slco1c1 ( <a href="#">SLC01C1 Products</a> )
Background:	<p>Solute carrier organic anion transporter family member 1C1 (Organic anion transporter 2) (OATP2) (Organic anion transporter F) (OATP-F) (Organic anion-transporting polypeptide 14) (OATP-14) (Solute carrier family 21 member 14) (Thyroxine transporter),FUNCTION: Mediates the Na(+)-independent high affinity transport of thyroid hormones at the plasma membrane of brain capillary endothelial cells (PubMed:15166123, PubMed:24691440, PubMed:22294745). The transport activity of substrates L-thyroxine (T4) and 3,3',5'-triiodo-L-thyronine (reverse T3, rT3) is much greater than that of 3,3',5'-triiodo-L-thyronine (T3) (PubMed:15166123). The prehormone, T4, is the major form in the circulating blood and is converted to the active form, T3, by the iodothyronine-deiodinase in peripheral organs (PubMed:15166123). T3 plays an</p>

## Target Details

essential role in brain development via binding to specific nuclear receptors (thyroid hormone receptor) (PubMed:15166123, PubMed:22294745). Also transports organic anions such as the conjugated steroid 17-beta-glucuronosyl estradiol (17beta-estradiol 17-O-(beta-D-glucuronate)) (PubMed:15166123). Transports T4 and estrone-3-sulfate in a pH-insensitive manner (By similarity). May serve as a drug efflux system at the blood brain barrier (By similarity). {ECO:0000250|UniProtKB:Q9EPZ7, ECO:0000250|UniProtKB:Q9NYB5, ECO:0000269|PubMed:15166123, ECO:0000269|PubMed:22294745, ECO:0000269|PubMed:24691440, ECO:0000303|PubMed:15166123, ECO:0000303|PubMed:22294745}.

Molecular Weight: 78.3 kDa

UniProt: [Q9ERB5](#)

## 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