

Datasheet for ABIN3119575

## SLC01B1 Protein (AA 1-691) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	SLC01B1
Protein Characteristics:	AA 1-691
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC01B1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MDQNQHLNKT AEAQPSENKK TRYCNGLKMF LAALSLSFIA KTLGAIIMKS SIIHIERRFE</p> <p>ISSSLVGFD GSFEIGNLLV IVFVSYFGSK LHRPKLIGIG CFIMGIGGV L TALPHFFMGY</p> <p>YRYSKETNIN SSENSTSTLS TCLINQILSL NRASPEIVGK GCLKESGSYM WIYVFMGNML</p> <p>RGIGETPIVP LGLSYIDFKA KEGHSSLYLG ILNAIAMIGP IIGFTLGSLF SKMYVDIGYV DLSTIRITPT</p> <p>DSRWVGAWWL NFLVSGLFSI ISSIPFFFLP QTPNKPQKER KASLSLHVLE TNDEKDQTAN</p> <p>LTNQGKNITK NVTGFFQSFK SILTNPLYVM FVLLTLLQVS SYIGAFTYVF KYVEQYQGQP</p> <p>SSKANILLGV ITIPIFASGM FLGGYIIKKF KLNTVGIKAF SCFTAVMSLS FYLLYFFILC</p> <p>ENKSVAGLTM TYDGNNPVTS HRDVPLSYCN SDCNCDESQW EPVCGNNGIT YISPCLAGCK</p> <p>SSSGNKKPIV FYNCSCLEVT GLQNRNYSAH LGECPRDDAC TRKFYFFVAI QVLNLFSSAL</p> <p>GGTSHVMLIV KIVQPELKS LALGFHSMVIR ALGGILAPIY FGALIDTTTCI KWSTNNCGTR</p> <p>GSCRTYNSTS FSRVYGLSS MLRVSSSLVLY IILYAMKKK YQEKDINASE NGSVMDEANL</p>

ESLNKNKHFV PSAGADSETH C

**Sequence without tag. The proposed Strep-Tag is based on experience s 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.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

#### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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## Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

## Target Details

Target: SLC01B1

Alternative Name: SLC01B1 ([SLC01B1 Products](#))

Background: Solute carrier organic anion transporter family member 1B1 (SLC01B1) (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 (cholytaurine) 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) (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/HCO<sub>3</sub><sup>(-)</sup> acts as the probable counteranion that

## Target Details

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: 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.

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Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Handling

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Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months