

Datasheet for ABIN3130484

Slco1a1 Protein (AA 1-670) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	Slco1a1
Protein Characteristics:	AA 1-670
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Slco1a1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MEETEEKVAT QEGRFFSKMK VFLMSLTCA Y LAKSLSGVYM NSMLTQIERQ FGIPTSVVGF</p> <p>ITGSFEIGNL LLIVFVS YFG RKLHRPIIG VGCVVMGLGC FLMASPHFLM GRYKYETTIS</p> <p>PTSNLSSNSF LC IENRTQTL KPTQDPTECV KEIKSLMWIY VLIGNTMRGI GETPIMPLGI</p> <p>SYIEDFAKSE NSPLYIGILE MGKIVGPIIG LLLGSFFARV YVDIGSVNTD DLTITPTDTR</p> <p>WVGAWWIGFL VCAGVNILTS IPFFFFPKTL PKKELQDNVD VTKYEKVEKH RERAKKENLG</p> <p>ITKDFLPFMK SLCCNPIYML FSLTSVLQIN GFASTFTFLP KYLEQQYGKS TSEAVFLIGV</p> <p>YSLPPVCLGY LISGFIMKKF KITVKKAAYI AFGLSLSEYF IFLCN YLLTC DNFPVAGLTT</p> <p>SYKGVQHPLY GEKNVLADCN TRCSCLTDTW DPVCGDNGLA YMSACLAGCE KSVGTGTNMV</p> <p>FQNCSCIGSS GNSSAVLGLC KKGPECDNKL QYFLIKSVFS SFIFSLAAIP GYMVLLRCVK</p> <p>SEEKSIGVGL HAFFIRLLAG IPAPVYFGAL IDRTCLHWGT LKCGQPGACR MYDINRFRHI</p> <p>YLGLPAAVRG SSFLPAVFIL ILMRKHFHFG DIHSPDELA EMKLTEKESE CTDVCRSPKV</p>

ENDGELKTKL

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.

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.

Purification:

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

Product Details

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

Grade: custom-made

Target Details

Target: Slco1a1

Alternative Name: Slco1a1 ([Slco1a1 Products](#))

Background: Solute carrier organic anion transporter family member 1A1 (Sodium-independent organic anion-transporting polypeptide 1) (OATP-1) (Solute carrier family 21 member 1),FUNCTION: Mediates the Na(+)-independent transport of organic anions such as steroid sulfate conjugates (dehydroepiandrosterone sulfate (DHEAS), 17-beta-glucuronosyl estradiol, estrone-3-sulfate), conjugated (taurocholate) and unconjugated (cholate) bile acids, prostaglandin E2 (PGE2) and L-thyroxine T4 (PubMed:10600646, PubMed:11267661). Also capable of transporting sulfobromophthalein (BSP), ouabain and gadoxetate (PubMed:10600646). Hydrogencarbonate/HCO3(-) acts as the probable counteranion that exchanges for organic anions (By similarity). Shows a pH -sensitive substrate specificity which may be ascribed to the protonation state of the binding site and leads to a stimulation of substrate transport in an acidic microenvironment (By similarity). {ECO:0000250|UniProtKB:P46720, ECO:0000269|PubMed:10600646, ECO:0000269|PubMed:11267661}.

Molecular Weight: 74.4 kDa

UniProt: [Q9QXZ6](#)

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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Application Details

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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.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months