

Datasheet for ABIN3116868  
**SLC26A7 Protein (AA 1-656) (Strep Tag)**



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	SLC26A7
Protein Characteristics:	AA 1-656
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC26A7 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence: MTGAKRKKKS MLWSKMHTPQ CEDIIQWCRR RLPILDWAPH YNLKENLLPD TVSGIMLAVQ  
 QVTQGLAFV LSSVHPVFLG YGSLFPAIY AIFGMGHHVA TGTFALTSLI SANAVRIVP  
 QNMQLTTQS NTSVLGLSDF EMQRIHVAAA VSFLGGVIQV AMFVLQLGSA TFVVTEPVIS  
 AMTTGAATHV VTSQVKYLLG MKMPYISGPL GFFYIYAYVF ENIKSVRLEA LLLSLLSIV  
 LVLVKELNEQ FKRKIKVVLP VDLVLIIAAS FACYCTNMEN TYGLEVVGHI PQGIPSPRAP  
 PMNILSAVIT EAFGVALVGY VASLALAQGS AKKFKYSIDD NQEFLAHGLS NIVSSFFFCI  
 PSAAAMGRTA GLYSTGAKTQ VACLISCIFV LIVIYAIGPL LYWLPMCVA SIIVVGLKGM  
 LIQFRDLKKY WNVDKIDWGI WVSTYVFTIC FAANVGLLFG VVCTIAIVIG RFPRAMTVSI  
 KNMKEMEFKV KTEMDSETLQ QVKIISINNP LVFLNAKKFY TDLNMNIQKE NACNQPLDDI  
 SKCEQNTLLN SLSNGNCNEE ASQSCPNEKC YLILDCSGFT FFDYSGVSML VEVYMDCKGR  
 SVDVLLAHCT ASLIKAMTYG GNLDSKPIF FESVSAASH IHSNKNLSKL SDHSEV

**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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

### Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag
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## Product Details

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- capture material. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade: Crystallography grade

## Target Details

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Target: SLC26A7

Alternative Name: SLC26A7 ([SLC26A7 Products](#))

Background: Anion exchange transporter (Solute carrier family 26 member 7),FUNCTION: Acts as an anion channel mediating the transport of chloride, sulfate and oxalate ions (PubMed:11834742). Mediates the transport of bromide, iodide, nitrate, gluconate, thiocyanate and bicarbonate ions (By similarity). Its permeability towards bicarbonate is weak and increases when pH is above 7 (By similarity). Mediates thiocyanate transport in retinal pigment epithelium cells (By similarity). Mediates iodide transport in the thyroid gland, playing an important role in the synthesis of thyroid hormones and the maintenance of thyroid function (PubMed:31372509). Although it is an anion channel, according to PubMed:12736153 and PubMed:32119864 it has been shown to exhibit chloride-bicarbonate exchanger activity. {ECO:0000250|UniProtKB:Q8R2Z3, ECO:0000269|PubMed:11834742, ECO:0000269|PubMed:12736153, ECO:0000269|PubMed:31372509, ECO:0000269|PubMed:32119864}.

Molecular Weight: 72.2 kDa

UniProt: [Q8TE54](#)

Pathways: [Dicarboxylic Acid Transport](#)

## Application Details

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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.

Comment: 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

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process