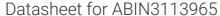
# antibodies .- online.com





# SLC12A3 Protein (AA 1-1021) (Strep Tag)



**Image** 



Go to Product page

### Overview

Quantity:	1 mg
Target:	SLC12A3
Protein Characteristics:	AA 1-1021
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC12A3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

## **Product Details**

Sequence:

MAELPTTETP GDATLCSGRF TISTLLSSDE PSPPAAYDSS HPSHLTHSST FCMRTFGYNT
IDVVPTYEHY ANSTQPGEPR KVRPTLADLH SFLKQEGRHL HALAFDSRPS HEMTDGLVEG
EAGTSSEKNP EEPVRFGWVK GVMIRCMLNI WGVILYLRLP WITAQAGIVL TWIIILLSVT
VTSITGLSIS AISTNGKVKS GGTYFLISRS LGPELGGSIG LIFAFANAVG VAMHTVGFAE
TVRDLLQEYG APIVDPINDI RIIAVVSVTV LLAISLAGME WESKAQVLFF LVIMVSFANY
LVGTLIPPSE DKASKGFFSY RADIFVQNLV PDWRGPDGTF FGMFSIFFPS ATGILAGANI
SGDLKDPAIA IPKGTLMAIF WTTISYLAIS ATIGSCVVRD ASGVLNDTVT PGWGACEGLA
CSYGWNFTEC TQQHSCHYGL INYYQTMSMV SGFAPLITAG IFGATLSSAL ACLVSAAKVF
QCLCEDQLYP LIGFFGKGYG KNKEPVRGYL LAYAIAVAFI IIAELNTIAP IISNFFLCSY ALINFSCFHA
SITNSPGWRP SFQYYNKWAA LFGAIISVVI MFLLTWWAAL IAIGVVLFLL LYVIYKKPEV
NWGSSVQAGS YNLALSYSVG LNEVEDHIKN YRPQCLVLTG PPNFRPALVD FVGTFTRNLS
LMICGHVLIG PHKQRMPELQ LIANGHTKWL NKRKIKAFYS DVIAEDLRRG VQILMQAAGL

GRMKPNILVV GFKKNWQSAH PATVEDYIGI LHDAFDFNYG VCVMRMREGL NVSKMMQAHI NPVFDPAEDG KEASARVDPK ALVKEEQATT IFQSEQGKKT IDIYWLFDDG GLTLLIPYLL GRKRRWSKCK IRVFVGGQIN RMDQERKAII SLLSKFRLGF HEVHILPDIN QNPRAEHTKR FEDMIAPFRL NDGFKDEATV NEMRRDCPWK ISDEEITKNR VKSLRQVRLN EIVLDYSRDA ALIVITLPIG RKGKCPSSLY MAWLETLSQD LRPPVILIRG NQENVLTFYC Q

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 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 posttranslational 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 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** SLC12A3 Target: Alternative Name: SLC12A3 (SLC12A3 Products) Background: Solute carrier family 12 member 3 (Na-Cl cotransporter) (NCC) (Na-Cl symporter) (Thiazidesensitive sodium-chloride cotransporter), FUNCTION: Electroneutral sodium and chloride ion cotransporter, which acts as a key mediator of sodium and chloride reabsorption in kidney distal convoluted tubules (PubMed:21613606, PubMed:18270262, PubMed:22009145, PubMed:36351028, PubMed:36792826). Also acts as a receptor for the pro-inflammatory cytokine IL18, thereby contributing to IL18-induced cytokine production, including IFNG, IL6, IL18 and CCL2 (By similarity). May act either independently of IL18R1, or in a complex with IL18R1 (By similarity). {ECO:0000250|UniProtKB:P59158, ECO:0000269|PubMed:18270262, ECO:0000269|PubMed:21613606, ECO:0000269|PubMed:22009145, ECO:0000269|PubMed:36351028, ECO:0000269|PubMed:36792826}. Molecular Weight: 113.1 kDa UniProt: P55017

# **Application Details**

**Application Notes:** 

In addition to the applications listed above we expect the protein to work for functional studies

# **Application Details**

	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
	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!
Restrictions:	For Research Use only
Handling	
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)



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