

Datasheet for ABIN3116388
SLC15A3 Protein (AA 1-581) (Strep Tag)



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	SLC15A3
Protein Characteristics:	AA 1-581
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC15A3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MPAPRAREQP RVPGERQPLL PRGARGPRRW RRAAGAAVLL VEMLERAFF GVTANLVLYL
 NSTNFWTGE QATRAALVFL GASVLLAPVG GWLADVYLGR YRAVALSLLL YLAASGLLPA
 TAFPDRSSF CGEMPASPLG PACPSAGCPR SSPSPYCAPV LYAGLLLLGL AASSVRSNLT
 SFGADQVMDL GRDATRRFFN WFYWSINLGA VLSLLVVAFI QQNISFLLGY SIPVGCVGLA
 FFIFLFATPV FITKPPMGSQ VSSMLKLALQ NCCPQLWQRH SARDRQCARV LADERSPPQG
 ASPQEDIANF QVLVKILPVM VTLVPYWMVY FQMNSTYVLQ GLHLHIPNIF PANPANISVA
 LRAQGSSYTI PEAWLLLANV VVVLILVPLK DRLIDPLLLR CKLLPSALQK MALGMFFGFT
 SVIVAGVLEM ERLHYIHHNE TVSQQIGEV L YNAAPLSIWW QIPQYLLIGI SEIFASIPGL
 EFAYSEAPRS MQGAIMGIFF CLSGVGSLLG SSLVALLSLP GGWLHCPKDF GNINNCRMDL
 YFFLLAGIQA VTALLFVWIA GRYERASQGP ASHSRFSRDR G

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 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 capture material. Eluate fractions are analyzed by SDS-PAGE.

Product Details

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

Target: SLC15A3

Alternative Name: SLC15A3 ([SLC15A3 Products](#))

Background: Solute carrier family 15 member 3 (Osteoclast transporter) (Peptide transporter 3) (Peptide/histidine transporter 2) (hPHT2),FUNCTION: Proton-coupled amino-acid transporter that transports free histidine and certain di- and tripeptides, and is involved in innate immune response (By similarity). Also able to transport carnosine (PubMed:31073693, PubMed:31254495). Involved in the detection of microbial pathogens by toll-like receptors (TLRs) and NOD-like receptors (NLRs), probably by mediating transport of bacterial peptidoglycans across the endolysosomal membrane: catalyzes the transport of certain bacterial peptidoglycans, such as muramyl dipeptide (MDP), the NOD2 ligand (By similarity). {ECO:0000250|UniProtKB:Q8BPX9, ECO:0000269|PubMed:31073693, ECO:0000269|PubMed:31254495}.

Molecular Weight: 63.6 kDa

UniProt: [Q8IY34](#)

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. 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



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