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Datasheet for ABIN3129897

SLC15A2 Protein (AA 1-729) (Strep Tag)

Overview

Quantity:	1 mg
Target:	SLC15A2
Protein Characteristics:	AA 1-729
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC15A2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MNPFQKNESK ETLFSPVSTE EMLPGPPSP KKSTPKLFGS SYPLSIAFIV VNEFCERFSY YGMKAVLTLY FLYFLHWNE TSTSVYHAFS SLCYFTPILG AAIADSWLGK FKTIYLSLV YVLGHVFKSL GAIPILGGKM LHTILSLVGL SLIALGTGGI KPCVAAFAGGD QFEEEHAEAR TRYFSVFYLS INAGSLISTF ITPMLRGDVK CFGEDCYALA FGIPGLLMVL ALVVFAMGSK MYRKPPPEGN IVAQVTKCIW FAICNRFRNR SEDIPKRQHW LDWAAEKYPK HLIMDVKALT RILFLYIPLP MFWALLDQQG SRWTLQANKM DGD LGFFVLQ PDQMQLNPF LVLVFIPLFD LVIYRLISK GVN FSSLRKM AVGMILACLA FAVAALVEIK INGMHPQPA SQEIFLQVLN LADGEIEVTV QGNRRNPLL V ESISFQNTT HYSKLRLETK SQDLHFHLKY NNLSVHNEYS VEEKNCYQLV VHENGESLSS MLVKDTGIKP ANGMTAIRFI NTLHKDMNIS LDANAPLSVG KDYGVSEYRT VQRGKYP AVH CETEDNVFSL NLGQLDFGTT YLFVITNITN RGLQAWKAED IPANKLSIAW QLPQYVLVTA AEVMFSVTGL EFSYSQAPSS MKSVLQA AAWL LTVAVGNIIV LIVAQFSGLV QWAEFVLFSC LLLVVCLIFS VMGYYVPLK SEGIHEATEK QIPHIQGNMI
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NLETKNTRL

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

Product Details

(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: $\geq 80\%$ 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: SLC15A2

Alternative Name: Slc15a2 ([SLC15A2 Products](#))

Background: Solute carrier family 15 member 2 (Kidney H(+)/peptide cotransporter) (Oligopeptide transporter, kidney isoform) (Peptide transporter 2),FUNCTION: Proton-coupled amino-acid transporter that transports oligopeptides of 2 to 4 amino acids with a preference for dipeptides (PubMed:11027540). Transports neutral and anionic dipeptides with a proton to peptide stoichiometry of 2:1 or 3:1 (By similarity). In kidney, involved in the absorption of circulating di- and tripeptides from the glomerular filtrate. Can also transport beta-lactam antibiotics, such as the aminoccephalosporin cefadroxil, and other antiviral and anticancer drugs (By similarity). Transports the dipeptide-like aminopeptidase inhibitor bestatin (By similarity). Also able to transport carnosine (By similarity). Involved in innate immunity by promoting the detection of microbial pathogens by NOD-like receptors (NLRs) (PubMed:29784761). Mediates transport of bacterial peptidoglycans across the plasma membrane or, in macrophages, the phagosome membrane: catalyzes the transport of certain bacterial peptidoglycans, such as muramyl dipeptide (MDP), the NOD2 ligand (PubMed:29784761). {ECO:0000250|UniProtKB:P46029, ECO:0000250|UniProtKB:Q16348, ECO:0000250|UniProtKB:Q63424, ECO:0000269|PubMed:11027540, ECO:0000269|PubMed:29784761}.

Molecular Weight: 81.6 kDa

UniProt: [Q9ES07](#)

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:

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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)