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Datasheet for ABIN3100178 SLC18A3 Protein (AA 1-532) (Strep Tag)





Overview

Quantity:	1 mg
Target:	SLC18A3
Protein Characteristics:	AA 1-532
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC18A3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

	have a special request, please contact us.
	system, a different complexity of the protein could make another tag necessary. In case you
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	ERDVLLDEPP QGLYDAVRLR ERPVSGQDGE PRSPPGPFDA CEDDYNYYYT RS
	YAIADISYSV AYALGPIVAG HIVHSLGFEQ LSLGMGLANL LYAPVLLLLR NVGLLTRSRS
	ALGLAVIGAS SCIVPACRSF APLVVSLCGL CFGIALVDTA LLPTLAFLVD VRHVSVYGSV
	CNIPLAFLEP TIATWMKHTM AASEWEMGMA WLPAFVPHVL GVYLTVRLAA RYPHLQWLYG
	KRVPFLVLAA VSLFDALLLL AVAKPFSAAA RARANLPVGT PIHRLMLDPY IAVVAGALTT
	ARSLQGLGSA FADTSGIAMI ADKYPEEPER SRALGVALAF ISFGSLVAPP FGGILYEFAG
	DVKIGVLFAS KAILQLLVNP LSGPFIDRMS YDVPLLIGLG VMFASTVLFA FAEDYATLFA
	IAHMRGGGEG PTRTPEVWEP TLPLPTPANA SAYTANTSAS PTAAWPAGSA LRPRYPTESE
Sequence:	MESAEPAGQA RAAATKLSEA VGAALQEPRR QRRLVLVIVC VALLLDNMLY MVIVPIVPDY

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Product Details

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

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	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
Farget Details	
Farget:	SLC18A3
Alternative Name:	SLC18A3 (SLC18A3 Products)
Background: Molecular Weight: UniProt:	 Vesicular acetylcholine transporter (VAChT) (Solute carrier family 18 member 3),FUNCTION: Electrogenic antiporter that exchanges one cholinergic neurotransmitter, acetylcholine or choline, with two intravesicular protons across the membrane of synaptic vesicles. Uses the electrochemical proton gradient established by the V-type proton-pump ATPase to store neurotransmitters inside the vesicles prior to their release via exocytosis (PubMed:8910293, PubMed:20225888) (By similarity). Determines cholinergic vesicular quantal size at presynaptic nerve terminals in developing neuro-muscular junctions with an impact on motor neuron differentiation and innervation pattern (By similarity). Part of forebrain cholinergic system, regulates hippocampal synapse transmissions that underlie spatial memory formation (By similarity). Can transport serotonin. {ECO:0000250 UniProtKB:035304, ECO:0000250 UniProtKB:Q62666, ECO:0000269 PubMed:20225888, ECO:0000269 PubMed:25355561, ECO:0000269 PubMed:8910293}. 56.9 kDa Q16572
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.
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

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Application Details	
	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

Expiry Date: Unlimited (if stored properly)

Store at -80°C.

Images

Storage Comment:



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

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