Datasheet for ABIN3114375

SLC18A2 Protein (AA 1-514) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SLC18A2
Protein Characteristics:	AA 1-514
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC18A2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MALSELALVR WLQESRRSRK LILFIVFLAL LLDNMLLTVV VPIIPSYLYS IKHEKNATEI QTARPVHTAS ISDSFQSIFS YYDNSTMVTG NATRDLTLHQ TATQHMVTNA SAVPSDCPSE DKDLLNENVQ VGLLFASKAT VQLITNPFIG LLTNRIGYPI PIFAGFCIMF VSTIMFAFSS SYAFLLIARS LQGIGSSCSS VAGMGMLASV YTDDEERGNV MGIALGGLAM GVLVGPPFGS VLYEFVGKTA PFLVLAALVL LDGAIQLFVL QPSRVQPESQ KGTPLTTLLK DPYILIAAGS ICFANMGIAM LEPALPIWMM ETMCSRKWQL GVAFLPASIS YLIGTNIFGI LAHKMGRWLC ALLGMIIVGV SILCIPFAKN IYGLIAPNFG VGFAIGMVDS SMMPIMGYLV DLRHVSVYGS VYAIADVAFC MGYAIGPSAG GAIAKAIGFP WLMTIIGIID ILFAPLCFFL RSPPAKEEKM AILMDHNCPI KTKMYTQNNI QSYPIGEDEE SESD **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 in one-step affinity chromatography • 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 try to ensure that you receive soluble 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 against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	SLC18A2
Alternative Name:	SLC18A2 (SLC18A2 Products)
Background:	Synaptic vesicular amine transporter (Monoamine transporter) (Solute carrier family 18 member 2) (Vesicular amine transporter 2) (VAT2),FUNCTION: Electrogenic antiporter that exchanges one cationic monoamine with two intravesicular protons across the membrane of secretory and synaptic vesicles. Uses the electrochemical proton gradient established by the V-type proton-pump ATPase to accumulate high concentrations of monoamines inside the vesicles prior to their release via exocytosis. Transports a variety of catecholamines such as dopamine, adrenaline and noradrenaline, histamine, and indolamines such as serotonin (PubMed:8643547, PubMed:23363473). Regulates the transvesicular monoaminergic gradient that determines the quantal size. Mediates somatodendritic dopamine release in hippocampal neurons, likely as part of a regulated secretory pathway that integrates retrograde synaptic signals (By similarity). Acts as a primary transporter for striatal dopamine loading ensuring impulse-dependent release of dopamine at the synaptic cleft (By similarity). Responsible for histamine and serotonin storage and subsequent corelease from mast cell granules (PubMed:8860238) (By similarity). {ECO:0000250|UniProtKB:Q01827, ECO:0000250|UniProtKB:Q8BRU6, ECO:0000269|PubMed:23363473, ECO:0000269|PubMed:8643547, ECO:0000269|PubMed:8860238}.
Molecular Weight:	55.7 kDa
UniProt:	Q05940

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 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

Application Details

	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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months