Datasheet for ABIN3116669

SLC17A8 Protein (AA 1-589) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	SLC17A8
Protein Characteristics:	AA 1-589
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC17A8 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MPFKAFDTFK EKILKPGKEG VKNAVGDSLG ILQRKIDGTT EEEDNIELNE EGRPVQTSRP SPPLCDCHCC GLPKRYIIAI MSGLGFCISF GIRCNLGVAI VEMVNNSTVY VDGKPEIQTA QFNWDPETVG LIHGSFFWGY IMTQIPGGFI SNKFAANRVF GAAIFLTSTL NMFIPSAARV HYGCVMCVRI LQGLVEGVTY PACHGMWSKW APPLERSRLA TTSFCGSYAG AVVAMPLAGV LVQYIGWSSV FYIYGMFGII WYMFWLLQAY ECPAAHPTIS NEEKTYIETS IGEGANVVSL SKFSTPWKRF FTSLPVYAII VANFCRSWTF YLLLISQPAY FEEVFGFAIS KVGLLSAVPH MVMTIVVPIG GQLADYLRSR QILTTTAVRK IMNCGGFGME ATLLLVVGFS HTKGVAISFL VLAVGFSGFA ISGFNVNHLD IAPRYASILM GISNGVGTLS GMVCPLIVGA MTRHKTREEW QNVFLIAALV HYSGVIFYGV FASGEKQEWA DPENLSEEKC GIIDQDELAE EIELNHESFA SPKKKMSYGA TSQNCEVQKK EWKGQRGATL DEEELTSYQN EERNFSTIS **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:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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Target Details

Target:	SLC17A8
Alternative Name:	SLC17A8 (SLC17A8 Products)
Background:	Vesicular glutamate transporter 3 (VGluT3) (Solute carrier family 17 member 8),FUNCTION: Multifunctional transporter that transports L-glutamate as well as multiple ions such as chloride, sodium and phosphate (PubMed:33440152, PubMed:12151341). At the synaptic vesicle membrane, mainly functions as an uniporter that mediates the uptake of L-glutamate into synaptic vesicles at presynaptic nerve terminals of excitatory neural cells (PubMed:12151341). The L-glutamate uniporter activity is electrogenic and is driven by the proton electrochemical gradient, mainly by the electrical gradient established by the vacuolar H(+)-ATPase across the synaptic vesicle membrane (PubMed:12151341). In addition, functions as a chloride channel that allows a chloride permeation through the synaptic vesicle membrane that affects the proton electrochemical gradient and promotes synaptic vesicles acidification (By similarity). At the plasma membrane, following exocytosis, functions as a symporter of Na(+) and phosphate from the extracellular space to the cytoplasm allowing synaptic phosphate homeostasis regulation (Probable). The symporter activity is electrogenic (PubMed:33440152). Moreover, operates synergistically with SLC18A3/VACHT under a constant H(+) gradient, thereby allowing striatal vesicular acetylcholine uptake (By similarity). {ECO:0000250|UniProtKB:Q7TSF2, ECO:0000269|PubMed:12151341, ECO:0000305|PubMed:33440152}.
Molecular Weight:	65.0 kDa
UniProt:	Q8NDX2
Pathways:	Sensory Perception of Sound, Dicarboxylic Acid Transport

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

Application Details

	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)

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