Datasheet for ABIN3115139

SLC5A12 Protein (AA 1-618) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SLC5A12
Protein Characteristics:	AA 1-618
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC5A12 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MEVKNFAVWD YVVFAALFFI SSGIGVFFAI KERKKATSRE FLVGGRQMSF GPVGLSLTAS FMSAVTVLGT PSEVYRFGAS FLVFFIAYLF VILLTSELFL PVFYRSGITS TYEYLQLRFN KPVRYAATVI YIVQTILYTG VVVYAPALAL NQVTGFDLWG SVFATGIVCT FYCTLGGLKA VVWTDAFQMV VMIVGFLTVL IQGSTHAGGF HNVLEQSTNG SRLHIFDFDV DPLRRHTFWT ITVGGTFTWL GIYGVNQSTI QRCISCKTEK HAKLALYFNL LGLWIILVCA VFSGLIMYSH FKDCDPWTSG IISAPDQLMP YFVMEIFATM PGLPGLFVAC AFSGTLSTVA SSINALATVT FEDFVKSCFP HLSDKLSTWI SKGLCLLFGV MCTSMAVAAS VMGGVVQASL SIHGMCGGPM LGLFSLGIVF PFVNWKGALG GLLTGITLSF WVAIGAFIYP APASKTWPLP LSTDQCIKSN VTATGPPVLS SRPGIADTWY SISYLYYSAV GCLGCIVAGV IISLITGRQR GEDIQPLLIR PVCNLFCFWS KKYKTLCWCG VQHDSGTEQE NLENGSARKQ GAESVLQNGL RRESLVHVPG YDPKDKSYNN MAFETTHF

Product Details

	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).

Product Details

Grade:	custom-made

Target Details

Target:	SLC5A12
Alternative Name:	SLC5A12 (SLC5A12 Products)
Background:	Sodium-coupled monocarboxylate transporter 2 (Electroneutral sodium monocarboxylate cotransporter) (Low-affinity sodium-lactate cotransporter) (Solute carrier family 5 member 12),FUNCTION: Acts as an electroneutral and low-affinity sodium (Na(+))-dependent sodium-coupled solute transporter (PubMed:17692818). Catalyzes the transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, nicotinate, propionate, butyrate and beta-D-hydroxybutyrate (By similarity). May be responsible for the first step of reabsorption of monocarboxylates from the lumen of the proximal tubule of the kidney and the small intestine. May play also a role in monocarboxylates transport in the retina (By similarity). {ECO:0000250|UniProtKB:Q49B93, ECO:0000250|UniProtKB:Q7T384, ECO:0000269|PubMed:17692818}.
Molecular Weight:	67.6 kDa
UniProt:	Q1EHB4

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 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