Datasheet for ABIN3116868

SLC26A7 Protein (AA 1-656) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SLC26A7
Protein Characteristics:	AA 1-656
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC26A7 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MTGAKRKKKS MLWSKMHTPQ CEDIIQWCRR RLPILDWAPH YNLKENLLPD TVSGIMLAVQ QVTQGLAFAV LSSVHPVFGL YGSLFPAIIY AIFGMGHHVA TGTFALTSLI SANAVERIVP QNMQNLTTQS NTSVLGLSDF EMQRIHVAAA VSFLGGVIQV AMFVLQLGSA TFVVTEPVIS AMTTGAATHV VTSQVKYLLG MKMPYISGPL GFFYIYAYVF ENIKSVRLEA LLLSLLSIVV LVLVKELNEQ FKRKIKVVLP VDLVLIIAAS FACYCTNMEN TYGLEVVGHI PQGIPSPRAP PMNILSAVIT EAFGVALVGY VASLALAQGS AKKFKYSIDD NQEFLAHGLS NIVSSFFFCI PSAAAMGRTA GLYSTGAKTQ VACLISCIFV LIVIYAIGPL LYWLPMCVLA SIIVVGLKGM LIQFRDLKKY WNVDKIDWGI WVSTYVFTIC FAANVGLLFG VVCTIAIVIG RFPRAMTVSI KNMKEMEFKV KTEMDSETLQ QVKIISINNP LVFLNAKKFY TDLMNMIQKE NACNQPLDDI SKCEQNTLLN SLSNGNCNEE ASQSCPNEKC YLILDCSGFT FFDYSGVSML VEVYMDCKGR SVDVLLAHCT ASLIKAMTYY GNLDSEKPIF FESVSAAISH IHSNKNLSKL SDHSEV

	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:	SLC26A7
Alternative Name:	SLC26A7 (SLC26A7 Products)
Background:	Anion exchange transporter (Solute carrier family 26 member 7),FUNCTION: Acts as an anion channel mediating the transport of chloride, sulfate and oxalate ions (PubMed:11834742). Mediates the transport of bromide, iodide, nitrate, gluconate, thiocyanate and bicarbonate ions (By similarity). Its permeability towards bicarbonate is weak and increases when pH is above 7 (By similarity). Mediates thiocyanate transport in retinal pigment epithelium cells (By similarity). Mediates iodide transport in the thyroid gland, playing an important role in the synthesis of thyroid hormones and the maintenance of thyroid function (PubMed:31372509). Although it is an anion channel, according to PubMed:12736153 and PubMed:32119864 it has been shown to exhibit chloride-bicarbonate exchanger activity. {ECO:0000250|UniProtKB:Q8R2Z3, ECO:0000269|PubMed:11834742, ECO:0000269|PubMed:12736153, ECO:0000269|PubMed:31372509, ECO:0000269|PubMed:32119864}.
Molecular Weight:	72.2 kDa
UniProt:	Q8TE54
Pathways:	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 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

Application Details

	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