Datasheet for ABIN3112738

SLC2A2 Protein (AA 1-524) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	SLC2A2
Protein Characteristics:	AA 1-524
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC2A2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MTEDKVTGTL VFTVITAVLG SFQFGYDIGV INAPQQVIIS HYRHVLGVPL DDRKAINNYV INSTDELPTI SYSMNPKPTP WAEEETVAAA QLITMLWSLS VSSFAVGGMT ASFFGGWLGD TLGRIKAMLV ANILSLVGAL LMGFSKLGPS HILIIAGRSI SGLYCGLISG LVPMYIGEIA PTALRGALGT FHQLAIVTGI LISQIIGLEF ILGNYDLWHI LLGLSGVRAI LQSLLLFFCP ESPRYLYIKL DEEVKAKQSL KRLRGYDDVT KDINEMRKER EEASSEQKVS IIQLFTNSSY RQPILVALML HVAQQFSGIN GIFYYSTSIF QTAGISKPVY ATIGVGAVNM VFTAVSVFLV EKAGRRSLFL IGMSGMFVCA IFMSVGLVLL NKFSWMSYVS MIAIFLFVSF FEIGPGPIPW FMVAEFFSQG PRPAALAIAA FSNWTCNFIV ALCFQYIADF CGPYVFFLFA GVLLAFTLFT FFKVPETKGK SFEEIAAEFQ KKSGSAHRPK AAVEMKFLGA TETV **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:	SLC2A2
Alternative Name:	SLC2A2 (SLC2A2 Products)
Background:	Solute carrier family 2, facilitated glucose transporter member 2 (Glucose transporter type 2, liver) (GLUT-2),FUNCTION: Facilitative hexose transporter that mediates the transport of glucose, fructose and galactose (PubMed:8027028, PubMed:16186102, PubMed:23396969, PubMed:28083649, PubMed:8457197). Likely mediates the bidirectional transfer of glucose across the plasma membrane of hepatocytes and is responsible for uptake of glucose by the beta cells, may comprise part of the glucose-sensing mechanism of the beta cell (PubMed:8027028). May also participate with the Na(+)/glucose cotransporter in the transcellular transport of glucose in the small intestine and kidney (PubMed:3399500). Also able to mediate the transport of dehydroascorbate (PubMed:23396969). {ECO:0000269|PubMed:16186102, ECO:0000269|PubMed:23396969, ECO:0000269|PubMed:28083649, ECO:0000269|PubMed:3399500, ECO:0000269|PubMed:8027028, ECO:0000269|PubMed:8457197}.
Molecular Weight:	57.5 kDa
UniProt:	P11168
Pathways:	Warburg Effect

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