Datasheet for ABIN3120025

SLC22A3 Protein (AA 1-551) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	SLC22A3 (OCT3)
Protein Characteristics:	AA 1-551
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC22A3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MPTFDQALRK AGEFGRFQRR VFLLLCLTGV TFAFLFVGVV FLGSQPDYYW CRGPRATALA ERCAWSPEEE WNLTTPELHV PAERRGQGHC HRYLLEATNT SSELSCDPLT AFPNRSAPLV SCSGDWRYVE THSTIVSQFD LVCSNAWMLD LTQAILNLGF LAGAFTLGYA ADRYGRLIIY LISCFGVGIT GVVVAFAPNF SVFVIFRFLQ GVFGKGAWMT CFVIVTEIVG SKQRRIVGIV IQMFFTLGII ILPGIAYFTP SWQGIQLAIS LPSFLFLLYY WVVPESPRWL ITRKQGEKAL QILRRVAKCN GKHLSSNYSE ITVTDEEVSN PSCLDLVRTP QMRKCTLILM FAWFTSAVVY QGLVMRLGLI GGNLYIDFFI SGLVELPGAL LILLTIERLG RRLPFAASNI VAGVSCLVTA FLPEGIPWLR TTVATLGRLG ITMAFEIVYL VNSELYPTTL RNFGVSLCSG LCDFGGIIAP FLLFRLAAIW LELPLIIFGI LASVCGGLVM LLPETKGIAL PETVEDVEKL GSSQLHQCGR KKKTQVSTSD V **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:	SLC22A3 (OCT3)
Alternative Name:	Slc22a3 (OCT3 Products)
Background:	Solute carrier family 22 member 3 (Organic cation transporter 3) (OCT3),FUNCTION: Electrogenic voltage-dependent transporter that mediates the transport of a variety of organic cations such as endogenous bioactive amines, cationic drugs and xenobiotics (PubMed:10966924, PubMed:18513366). Cation cellular uptake or release is driven by the electrochemical potential, i.e. membrane potential and concentration gradient (PubMed:10966924). Functions as a Na(+)- and Cl(-)-independent, bidirectional uniporter (By similarity). Implicated in monoamine neurotransmitters uptake such as dopamine, adrenaline/epinephrine, noradrenaline/norepinephrine, homovanillic acid, histamine, serotonin and tyramine, thereby supporting a role in homeostatic regulation of aminergic neurotransmission in the brain (PubMed:18513366, PubMed:19416912). Transports dopaminergic neuromodulators cyclo(his-pro) and salsolinol with low efficiency (By similarity). May be involved in the uptake and disposition of cationic compounds by renal clearance from the blood flow (PubMed:10966924). May contribute to regulate the transport of cationic compounds in testis across the blood-testis-barrier (By similarity). Mediates the transport of polyamine spermidine and putrescine (By similarity). Mediates the bidirectional transport of polyamine agmatine (By similarity). Also transports guanidine (PubMed:10966924). May also mediate intracellular transport of organic cations, thereby playing a role in amine metabolism and intracellular signaling (PubMed:27659446). {ECO:0000250|UniProtKB:O75751, ECO:0000250|UniProtKB:O88446, ECO:0000269|PubMed:10966924, ECO:0000269|PubMed:18513366, ECO:0000269|PubMed:19416912, ECO:0000269|PubMed:27659446}.
Molecular Weight:	61.1 kDa
UniProt:	Q9WTW5

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

Application Details

	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