Datasheet for ABIN3117306

SLC47A1 Protein (AA 1-570) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SLC47A1
Protein Characteristics:	AA 1-570
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC47A1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MEAPEEPAPV RGGPEATLEV RGSRCLRLSA FREELRALLV LAGPAFLVQL MVFLISFISS VFCGHLGKLE LDAVTLAIAV INVTGVSVGF GLSSACDTLI SQTYGSQNLK HVGVILQRSA LVLLLCCFPC WALFLNTQHI LLLFRQDPDV SRLTQTYVTI FIPALPATFL YMLQVKYLLN QGIVLPQIVT GVAANLVNAL ANYLFLHQLH LGVIGSALAN LISQYTLALL LFLYILGKKL HQATWGGWSL ECLQDWASFL RLAIPSMLML CMEWWAYEVG SFLSGILGMV ELGAQSIVYE LAIIVYMVPA GFSVAASVRV GNALGAGDME QARKSSTVSL LITVLFAVAF SVLLLSCKDH VGYIFTTDRD IINLVAQVVP IYAVSHLFEA LACTSGGVLR GSGNQKVGAI VNTIGYYVVG LPIGIALMFA TTLGVMGLWS GIIICTVFQA VCFLGFIIQL NWKKACQQAQ VHANLKVNNV PRSGNSALPQ DPLHPGCPEN LEGILTNDVG KTGEPQSDQQ MRQEEPLPEH PQDGAKLSRK QLVLRRGLLL LGVFLILLVG ILVRFYVRIQ **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:	SLC47A1
Alternative Name:	SLC47A1 (SLC47A1 Products)
Background:	Multidrug and toxin extrusion protein 1 (MATE-1) (hMATE-1) (Solute carrier family 47 member 1),FUNCTION: Multidrug efflux pump that functions as a H(+)/organic cation antiporter (PubMed:16330770, PubMed:17509534). Plays a physiological role in the excretion of cationic compounds including endogenous metabolites, drugs, toxins through the kidney and liver, into urine and bile respectively (PubMed:16330770, PubMed:17495125, PubMed:17509534, PubMed:17582384, PubMed:18305230, PubMed:19158817, PubMed:21128598, PubMed:24961373). Mediates the efflux of endogenous compounds such as creatinine, vitamin B1/thiamine, agmatine and estrone-3-sulfate (PubMed:16330770, PubMed:17495125, PubMed:17509534, PubMed:17582384, PubMed:18305230, PubMed:19158817, PubMed:21128598, PubMed:24961373). May also contribute to regulate the transport of cationic compounds in testis across the blood-testis-barrier (Probable). {ECO:0000269|PubMed:16330770, ECO:0000269|PubMed:17495125, ECO:0000269|PubMed:17509534, ECO:0000269|PubMed:17582384, ECO:0000269|PubMed:18305230, ECO:0000269|PubMed:19158817, ECO:0000269|PubMed:21128598, ECO:0000269|PubMed:24961373, ECO:0000305|PubMed:35307651}.
Molecular Weight:	61.9 kDa
UniProt:	Q96FL8

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

Application Details

	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