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Datasheet for ABIN3112810 SLC25A6 Protein (AA 1-298) (Strep Tag)





Overview

Quantity:	1 mg
	-
Target:	SLC25A6
Protein Characteristics:	AA 1-298
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC25A6 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MTEQAISFAK DFLAGGIAAA ISKTAVAPIE RVKLLLQVQH ASKQIAADKQ YKGIVDCIVR
	IPKEQGVLSF WRGNLANVIR YFPTQALNFA FKDKYKQIFL GGVDKHTQFW RYFAGNLASG
	GAAGATSLCF VYPLDFARTR LAADVGKSGT EREFRGLGDC LVKITKSDGI RGLYQGFSVS
	VQGIIIYRAA YFGVYDTAKG MLPDPKNTHI VVSWMIAQTV TAVAGVVSYP FDTVRRRMMM
	QSGRKGADIM YTGTVDCWRK IFRDEGGKAF FKGAWSNVLR GMGGAFVLVL YDELKKVI
	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 by multi-step, protein-specific process to ensure correct folding and modification.

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- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

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Product Details

Grade:

Crystallography grade

Target Details

Target:	SLC25A6
Alternative Name:	SLC25A6 (SLC25A6 Products)
Background:	ADP/ATP translocase 3 (ADP,ATP carrier protein 3) (ADP,ATP carrier protein, isoform T2) (ANT
	2) (Adenine nucleotide translocator 3) (ANT 3) (Solute carrier family 25 member 6) [Cleaved
	into: ADP/ATP translocase 3, N-terminally processed],FUNCTION: ADP:ATP antiporter that
	mediates import of ADP into the mitochondrial matrix for ATP synthesis, and export of ATP ou
	to fuel the cell (By similarity). Cycles between the cytoplasmic-open state (c-state) and the
	matrix-open state (m-state): operates by the alternating access mechanism with a single
	substrate-binding site intermittently exposed to either the cytosolic (c-state) or matrix (m-state
	side of the inner mitochondrial membrane (By similarity). In addition to its ADP:ATP antiporter
	activity, also involved in mitochondrial uncoupling and mitochondrial permeability transition
	pore (mPTP) activity (PubMed:15033708). Plays a role in mitochondrial uncoupling by acting a
	a proton transporter: proton transport uncouples the proton flows via the electron transport
	chain and ATP synthase to reduce the efficiency of ATP production and cause mitochondrial
	thermogenesis (By similarity). Proton transporter activity is inhibited by ADP:ATP antiporter
	activity, suggesting that SLC25A6/ANT3 acts as a master regulator of mitochondrial energy
	output by maintaining a delicate balance between ATP production (ADP:ATP antiporter activity
	and thermogenesis (proton transporter activity) (By similarity). Proton transporter activity
	requires free fatty acids as cofactor, but does not transport it (By similarity). Also plays a key
	role in mPTP opening, a non-specific pore that enables free passage of the mitochondrial
	membranes to solutes of up to 1.5 kDa, and which contributes to cell death
	(PubMed:15033708). It is however unclear if SLC25A6/ANT3 constitutes a pore-forming
	component of mPTP or regulates it (By similarity). {ECO:0000250 UniProtKB:G2QNH0,
	ECO:0000250 UniProtKB:P48962, ECO:0000269 PubMed:15033708}.
Molecular Weight:	32.9 kDa
JniProt:	P12236
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

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Application Details	
	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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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