antibodies

Datasheet for ABIN3118624 SLC5A4 Protein (AA 1-659) (Strep Tag)





Overview

Quantity:	1 mg
Target:	SLC5A4
Protein Characteristics:	AA 1-659
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC5A4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MASTVSPSTI AETPEPPPLS DHIRNAADIS VIVIYFLVVM AVGLWAMLKT NRGTIGGFFL
	AGRDMAWWPM GASLFASNIG SNHYVGLAGT GAASGVATVT FEWTSSVMLL ILGWIFVPIY
	IKSGVMTMPE YLKKRFGGER LQVYLSILSL FICVVLLISA DIFAGAIFIK LALGLDLYLA IFILLAMTAV
	YTTTGGLASV IYTDTLQTII MLIGSFILMG FAFNEVGGYE SFTEKYVNAT PSVVEGDNLT
	ISASCYTPRA DSFHIFRDAV TGDIPWPGII FGMPITALWY WCTNQVIVQR CLCGKDMSHV
	KAACIMCAYL KLLPMFLMVM PGMISRILYT DMVACVVPSE CVKHCGVDVG CTNYAYPTMV
	LELMPQGLRG LMLSVMLASL MSSLTSIFNS ASTLFTIDLY TKMRKQASEK ELLIAGRIFV
	LLLTVVSIVW VPLVQVSQNG QLIHYTESIS SYLGPPIAAV FVLAIFCKRV NEQGAFWGLM
	VGLAMGLIRM ITEFAYGTGS CLAPSNCPKI ICGVHYLYFS IVLFFGSMLV TLGISLLTKP
	IPDVHLYRLC WVLRNSTEER IDIDAEEKSQ EETDDGVEED YPEKSRGCLK KAYDLFCGLQ
	KGPKLTKEEE EALSKKLTDT SERPSWRTIV NINAILLLAV VVFIHGYYA
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	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. 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®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag

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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)</td>Grade:Crystallography grade

Target Details

Target:	SLC5A4
Alternative Name:	SLC5A4 (SLC5A4 Products)
Background:	Probable glucose sensor protein SLC5A4 (Solute carrier family 5 member 4),FUNCTION: Does not function as sodium/D-glucose symporter (PubMed:13130073, PubMed:20421923, PubMed:22766068). However, may function as a D-glucose sensor by generating a D-glucose- induced depolarization which is pH -independent, Na(+)-dependent at neutral pH and probably H(+)-dependent at acidic pH (PubMed:13130073, PubMed:22766068, PubMed:17110502, PubMed:20421923). {ECO:0000269 PubMed:13130073, ECO:0000269 PubMed:17110502, ECO:0000269 PubMed:20421923, ECO:0000269 PubMed:22766068}.
Molecular Weight:	72.5 kDa
UniProt:	Q9NY91
Pathways:	Proton 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

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Application Details	
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	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)

Images



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

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