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Datasheet for ABIN3135844

SLC9A10 Protein (AA 1-1175) (Strep Tag)

Overview

Quantity:	1 mg
Target:	SLC9A10 (SLC9C1)
Protein Characteristics:	AA 1-1175
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC9A10 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MEMEEISENL TASHSIKLTN MWLELLKSVF LSTPQDLPEI ILISLICTV GAFLNMHLKD FPIPLPVILF LIGCCFEILS FASTQIQIYA DAIQWMDPDI FFGIFTPVII FNVAFDMDIY MLQKLFWQIL VITIPGFLIN YTLILWYLS VNKLSLKTVP WLLFSAVLIS SDPMLTSASI RDLGLSRSLT NLINGESLLT SVLSLVIYSG VVHIRFKSKS VNHTLAHKVM STAWSYIVES FITGIVFTKV IQLWMATIFG DDVNHITLIF SVLYLIFYVC ELVGMSGIFT LATIGLFLNS TSFKPGVEAF LLEFWNCLSF IGFLMVFTFI GLLIPAHTYL HISFSDVYYS LNIYFTLIVL RLLVFLLMSP ILSRLGHGFS WRWAFIMVWS EMKGTPNINM ALLLAYSDIS LGSERERSQI LFHGVSVCVI TLIVNRFILP MAVTKLGLRD VTSTKYKSVY YTFQHFQELT KSTAMALKFD KDLANADWNM VDNAILQNP YAMNQEEITE HQKVKPCDCN KEIDETLNE AMELTNRRLL SAQIASYQRQ YRNEVLSQSA VQVLVGAAGS FGEKKGEYMS PENIKNFSES KKLLSFLRKL LLNWVYNTKK DKGVPSPRYMF LHACHRIVFT NEFEYTG YLV VLMSTYPMII CWISRLKDIY DNEIKCANY Y FLAFYILEAL LKVAAMRKEF FSHTWLLFEL GITLVGVLDI ILIETDSISY NFDLTETVVF MNVIRLLRIL RILKLVT PKL
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LQIIDKRMSQ QISFRYSILK GYVQGEMDVL NIIDQIASSK QTKQILLKRV MRNMEHAMKE
LGYLEYDHPE IAVTMKTKEE INVMLNMARE IVKAFRSKGI IHKVEGTEIN KLIMAKKIQV
LDLQSVIQPF NVEEAPCNIP WLSEDPEAIT FIQEKAKVVT FDCGNNIFEE GDEPEGIYVI
ISGMVKLKRS KPHLEMERS AESEIKIHL PHTEYLLSGE IIGELNCLTK ERMQYSATCK
TVVETYFIPI SHLYEGFEKR CPNMKHKMWQ KIGLAITAQK IREHLSFEDW NYKLQLKLCN
AFIRDIPKSM KTDIYDETVT HVVLIHGS AE DCQLRKIYKA PFLIPVTCHQ IQGMEDFTKV
MIIQTSIAVR KFRWNVRYKI PPRRISMKPD SERESFETLD ETSEEDNGKK ENQENEELIE ENINI

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.
- 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:

Product Details

- 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 capture material. Eluate fractions are analyzed by SDS-PAGE. 2. 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)
Grade:	Crystallography grade

Target Details

Target:	SLC9A10 (SLC9C1)
Alternative Name:	Slc9c1 (SLC9C1 Products)
Background:	Solute carrier family 9 member C1 (Na ⁺)/H ⁺ exchanger 10) (NHE-10) (Sodium/hydrogen exchanger 10) (Solute carrier family 10 member 10) (Sperm-specific Na ⁺)/H ⁺ exchanger (sNHE),FUNCTION: Sperm-specific solute carrier involved in intracellular pH regulation of spermatozoa. Required for sperm motility and fertility. Involved in sperm cell hyperactivation, a step needed for sperm motility which is essential late in the preparation of sperm for fertilization. Required for the expression and bicarbonate regulation of the soluble adenylyl cyclase (sAC). {ECO:0000269 PubMed:14634667, ECO:0000269 PubMed:17517652}.
Molecular Weight:	135.5 kDa
UniProt:	Q6UJY2

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.
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Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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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)