antibodies.com

## Datasheet for ABIN3136310 SLC5A8 Protein (AA 1-611) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	SLC5A8
Protein Characteristics:	AA 1-611
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC5A8 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	MDASRDIGSF VVWDYVVFAG MLLISAAIGI YYAFAGGGQQ TSKDFLMGGR SMSAVPVALS
	LTASFMSAVT VLGTPAEVYR FGAIFSIFVI TYFFVVVISA EVFLPVFYRL GITSTYEYLE LRFNRCIRLC
	GTILFIVQTI LYTGIVIYAP ALALNQVTGF DLWGAVVATG VVCTFYCTLG GLKAVVWTDV
	FQVGIMVAGF ASVIIQASIT QHGINKILSD AFNGGRLNFW NFDPNPLQRH TFWTIVIGGT
	FTWTTIYGVN QSQVQRYISC KSRLHAKLSL YVNLVGLWVI LTCSIFCGLA LYSRYRECDP
	WTSKKVSAID QLMPYLVLDI LKNYPGVPGL FVACAYSGTL STVSSSINAL AAVTVEDLIK
	PRFKSLSEKS LSWISQGMSV LYGALCIGMA ALASLMGALL QAALSIFGMV GGPLLGLFSL
	GILVPFANSI GALTGLLAGF AISLWVGIGA QLYPPLPERT LPLPLETYGC NITHNGSDWM
	STTEMPFSTS AFQIHNAERT PLMDNWYSLS YLYFSTIGTL TTLFVGILIS LSTGGRKQNL
	DPRFLLTKQD FLSNFDVFKK RNHVLNYKLH PVEVGGTDNP AFNHVELNFT DHSGKINGTR L
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3136310 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Product Details	
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Slc5a8 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	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.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:
	1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
	2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
	<ol> <li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3136310 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Target Details	
Target:	SLC5A8
Alternative Name:	SIc5a8 (SLC5A8 Products)
Background:	Acts as an electrogenic sodium (Na(+)) and chloride (Cl-)-dependent sodium-coupled solute transporter, including transport of monocarboxylates (short-chain fatty acids including L- lactate, D-lactate, pyruvate, acetate, propionate, valerate and butyrate), lactate, mocarboxylate drugs (nicotinate, benzoate, salicylate and 5-aminosalicylate) and ketone bodies (beta-D- hydroxybutyrate, acetoacetate and alpha-ketoisocaproate), with a Na(+):substrate stoichiometry of between 4:1 and 2:1. Catalyzes passive carrier mediated diffusion of iodide. Mediates iodide transport from the thyrocyte into the colloid lumen through the apical membrane. May be responsible for the absorption of D-lactate and monocarboxylate drugs from the intestinal tract. May play a critical role in the entry of L-lactate and ketone bodies into neurons by a process driven by an electrochemical Na(+) gradient and hence contribute to the maintenance of the energy status and function of neurons. {ECO:0000269 PubMed:15322102, ECO:0000269 PubMed:15651982, ECO:0000269 PubMed:15867356, ECO:0000269 PubMed:16805814}.
Molecular Weight:	67.9 kDa Including tag.
UniProt:	Q8BYF6
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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3136310 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

## Handling

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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN3136310 | 09/11/2023 | Copyright antibodies-online. All rights reserved.