antibodies

Datasheet for ABIN3136272 SLC9A4 Protein (AA 1-797) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	SLC9A4
Protein Characteristics:	AA 1-797
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC9A4 protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MGPAMFMAFR LWNWLLLLAV LTRSEATSYV NESSNPTAQQ APDARFAASS SDPDEGISVF
	ELDYDYVQIP YEVTLWILLA SLAKIGFHLY HRLPHLMPES CLLIIVGALV GGIIFGTHHK
	SPPVMDSSIY FLYLLPPIVL ESGYFMPTRP FFENIGSILW WAGLGALINA FGIGLSLYFI
	CQIKAFGLGD INLLHNLLFG SLISAVDPVA VLAVFEEARV NEQLYMMIFG EALLNDGISV
	VLYNILIAFT KMHKFEDIEA VDILAGCARF VIVGCGGVFF GIIFGFISAF ITRFTQNISA IEPLIVFMFS
	YLSYLAAETL YLSGILAITA CAVTMKKYVE ENVSQTSYTT IKYFMKMLSS VSETLIFIFM
	GVSTIGKNHE WNWAFICFTL LFCQIWRAIS VFTLFYVSNQ FRTFPFSIKD QFIIFYSGVR
	GAGSFSLAFL LPLSLFPRKK LFVTATLVVT YFTVFFQGIT IGPLVRYLDV RKTNKKESIN
	EELHSRLMDH LKAGIEDVCG QWSHYQVRDK FKKFDHRYLR KILIRRNLPK SSIVSLYKKL
	EMKQAIEMVE TGILSSVASP TPYQSERIQG IKRLSPEDVE SMRDILTRSM YQVRQRTLSY
	NKYNLKPQTS EKQAKEILIR RQNTLRESMR KGQSLPWGKP AGTKNFRYLS FPYSNPQAAR
	REARAAEPTD DDGTDSGFQP LMFSIHSRAG SLQERRQTQA VIPMKRLQRG EKALSFSYRS

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 ABIN3136272 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	NTSWEDQAGW RRMDVLRPKP LFYAVAEEYD SGEQTEEETS AILSRWTAEH RHSTEHHKSH SPLLHRK
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Slc9a4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. 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.
	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:
	 Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 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. 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.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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 ABIN3136272 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Product Details	
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade
Target Details	
Target:	SLC9A4
Alternative Name:	Slc9a4 (SLC9A4 Products)
Background:	Involved in pH regulation to eliminate acids generated by active metabolism or to counter
	adverse environmental conditions. Major proton extruding system driven by the inward sodium
	ion chemical gradient. Plays an important role in signal transduction. May play a specialized
	role in the kidney in rectifying cell volume in response to extreme fluctuations of hyperosmolar
	stimulated cell shrinkage. Is relatively amiloride and ethylisopropylamiloride (EIPA) insensitive.
	Can be activated under conditions of hyperosmolar-induced cell shrinkage in a sustained
	intracellular acidification-dependence manner. Activated by 4,4'-diisothiocyanostilbene-2,2'-
	disulfonic acid (DIDS) in a sustained intracellular acidification-dependence manner. Affects
	potassium/proton exchange as well as sodium/proton and lithium/proton exchange (By
	similarity). In basolateral cell membrane, participates in homeostatic control of intracellular pH
	and may play a role in proton extrusion in order to achieve transepithelial HCO3(-) secretion. In
	apical cell membrane may be involved in mediating sodium absorption. Requires for normal
	levels of gastric acid secretion, secretory membrane development, parietal cell maturation
	and/or differentiation and at least secondarily for chief cell differentiation. {ECO:0000250,
	ECO:0000269 PubMed:12493726, ECO:0000269 PubMed:15684419}.
Molecular Weight:	92.1 kDa Including tag.
UniProt:	Q8BUE1
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 gurante
	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

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 ABIN3136272 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Application Details	
	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.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

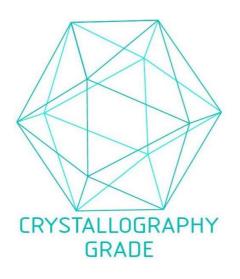


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process