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## Datasheet for ABIN3136273 SLC9A4 Protein (AA 472-797) (His tag)





Overview

Quantity:	1 mg	
Target:	SLC9A4	
Protein Characteristics:	AA 472-797	
Origin:	Mouse	
Source:	Escherichia coli (E. coli)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This SLC9A4 protein is labelled with His tag.	
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)	

## Product Details

Sequence:	GPLVRYLDVR KTNKKESINE ELHSRLMDHL KAGIEDVCGQ WSHYQVRDKF KKFDHRYLRK		
	ILIRRNLPKS SIVSLYKKLE MKQAIEMVET GILSSVASPT PYQSERIQGI KRLSPEDVES		
	MRDILTRSMY QVRQRTLSYN KYNLKPQTSE KQAKEILIRR QNTLRESMRK GQSLPWGKPA		
	GTKNFRYLSF PYSNPQAARR EARAAEPTDD DGTDSGFQPL MFSIHSRAGS LQERRQTQAV		
	IPMKRLQRGE KALSFSYRSN TSWEDQAGWR RMDVLRPKPL FYAVAEEYDS GEQTEEETSA		
	ILSRWTAEHR HSTEHHKSHS PLLHRK		
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have		
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a		
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.		
Characteristics:			
Characteristics:	<ul> <li>special request, please contact us.</li> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Slc9a4 Protein (raised in E. Coli) purified by multi-step, protein-specific process to</li> </ul>		
Characteristics:	<ul> <li>special request, please contact us.</li> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> </ul>		

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Product Details	
	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:	Two step purification of proteins expressed in bacterial culture:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three
	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade
Torget Datails	
Target Details	
Target:	SLC9A4
Alternative Name:	Slc9a4 (SLC9A4 Products)

Background: Involved in pH regulation to eliminate acids generated by active metabolism or to counter

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Application DetailsApplication 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 onlyHandlingFormat:LiquidBuffer:100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.Handling Advice:Avoid repeated freeze-thaw cycles.			
role in the kidney in rectifying cell volume in response to extreme fluctuations of hypercosmolar- stimulated cell shrinkage. Is relatively amiloride and ethylisopropylamiloride (EIPA) insensitive. Can be activated under conditions of hypercosmolar-induced cell shrinkage in a sustained intracellular acidification-dependence manner. Activated by 4,4-diisothiocyanostilbene-2,2- disulfonic acid (DDS) in a sustained intracellular acidification-dependence manner. Affects potassium/proton exchange as well as socilum/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 extusion in order to achieve transepithella HCOS() secretion. In apical cell membrane may be involved in mediating sodium absorption. Requires for normal levels of gistric acid secretion, secretory membrane development, parietal cell maturation and/or differentiation and at least secondarily for chief cell differentiation. (ECO:0000250), ECO:00002509[PubMed:12493/26, ECO:0000269[PubMed:15684419].         Molecular Weight:       39.1 KDa Including tag.         UniProt:       QBBUE1         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+ag) 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 Us		adverse environmental conditions. Major proton extruding system driven by the inward sodium	
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*disothiocyanostilbene-2,2*disulfonic acid (DDS) 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 transeptithelial 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:15684/19).         Molecular Weight:       39.1 kDa Including tag.         UniProt:       OBBUE1         Application Details       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 alb 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       Liquid		ion chemical gradient. Plays an important role in signal transduction. May play a specialized	
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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.	Handling		
Handling Advice: Avoid repeated freeze-thaw cycles.	Format:	Liquid	
	Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Storage: -80 °C	Handling Advice:	Avoid repeated freeze-thaw cycles.	
	Storage:	-80 °C	

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	land	

 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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