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Datasheet for ABIN3094016

## SLC24A6 Protein (AA 27-584) (rho-1D4 tag)

### 1 Image

#### Overview

Quantity:	0.5 mg
Target:	SLC24A6
Protein Characteristics:	AA 27-584
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC24A6 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence: TRGSSTGAHI SPQFPASGVN QTPVVDCRKY CGLNVSDRCD FIRTNPDCHS DGGYLDYLEG  
IFCHFPPSL LPLAVTLYVSW LLYLFLILGV TAAKFFCPNL SAISTTLKLS HNVAGVTFLA  
FGNGAPDIFS ALVAFSDPHT AGLALGALFG AGVLVTTVVA GGITILHPFM AASRPFFRDI  
VFYMVAVFLT FLMLFRGRVT LAWALGYLGL YVFYVVTVIL CTWIYQRQRG GSLFCMPMPVT  
PEILSDSEED RVSSNTNSYD YGDEYRPLFF YQETTAQILV RALNPLDYMK WRRKSAYWKA  
LKVFKLPVEF LLLLTPVVVD PDKDDQNWKR PLNCLHLVIS PLVVVLTLSQ GTYGVVEIGG  
LVPVWVVVVI AGTALASVTF FATSDSQPPR LHWLFAFLGF LTSALWINAA ATEVVNLRG  
LGVVFRSNT VLGLTLLAWG NSIGDAFSDF TLRQGYPRM AFSACFGGII FNILVGVGLG  
CLLQISRSHS EVKLEPDGLL VVWLAGALGL SLVFSLSVSP LQCFQLSRVY GFCLLLFYLN  
FLVVALLTEF GVIHLKSM

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

## Product Details

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human SLC8B1 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 receipt 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.

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### Purification:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

1. Membrane proteins are fractionated 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.
3. 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.

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### Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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### Sterility:

0.22 µm filtered

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### Endotoxin Level:

Protein is endotoxin-free.

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### Grade:

Crystallography grade

## Target Details

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Target:	SLC24A6
Alternative Name:	SLC8B1 ( <a href="#">SLC24A6 Products</a> )
Background:	<p>Mitochondrial sodium/calcium antiporter that mediates sodium-dependent calcium efflux from mitochondrion, thereby acting as a key regulator of mitochondrion calcium homeostasis.</p> <p>Regulates rates of glucose-dependent insulin secretion in pancreatic beta-cells during the first phase of insulin secretion: acts by mediating efflux of calcium from mitochondrion, thereby affecting cytoplasmic calcium responses. Able to transport Ca(2+) in exchange of either Li(+) or Na(+), explaining how Li(+) catalyzes Ca(2+) exchange. In contrast to other members of the family its function is independent of K(+). {ECO:0000269 PubMed:15060069, ECO:0000269 PubMed:20018762, ECO:0000269 PubMed:22829870, ECO:0000269 PubMed:23056385}.</p>
Molecular Weight:	62.6 kDa Including tag.
UniProt:	<a href="#">Q6J4K2</a>
Pathways:	<a href="#">Carbohydrate Homeostasis</a>

## Application Details

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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:	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

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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.

Handling

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Expiry Date: Unlimited (if stored properly)

Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process