antibodies

Datasheet for ABIN3115648 SLC24A6 Protein (AA 27-584) (rho-1D4 tag)





Overview

Quantity:	1 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 QTPVVDCRKV CGLNVSDRCD FIRTNPDCHS DGGYLDYLEG
	IFCHFPPSLL PLAVTLYVSW LLYLFLILGV TAAKFFCPNL SAISTTLKLS HNVAGVTFLA
	FGNGAPDIFS ALVAFSDPHT AGLALGALFG AGVLVTTVVA GGITILHPFM AASRPFFRDI
	VFYMVAVFLT FLMLFRGRVT LAWALGYLGL YVFYVVTVIL CTWIYQRQRR GSLFCPMPVT
	PEILSDSEED RVSSNTNSYD YGDEYRPLFF YQETTAQILV RALNPLDYMK WRRKSAYWKA
	LKVFKLPVEF LLLLTVPVVD PDKDDQNWKR PLNCLHLVIS PLVVVLTLQS GTYGVYEIGG
	LVPVWVVVVI AGTALASVTF FATSDSQPPR LHWLFAFLGF LTSALWINAA ATEVVNILRS
	LGVVFRLSNT VLGLTLLAWG NSIGDAFSDF TLARQGYPRM AFSACFGGII FNILVGVGLG
	CLLQISRSHT EVKLEPDGLL VWVLAGALGL SLVFSLVSVP 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.

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Product Details	
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 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.
	3. 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.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

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Target Details

Target:	SLC24A6
Alternative Name:	SLC8B1 (SLC24A6 Products)
Background:	Mitochondrial sodium/calcium antiporter that mediates sodium-dependent calcium efflux from mitochondrion, thereby acting as a key regulator of mitochondrion calcium homeostasis. 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}.
Molecular Weight:	62.6 kDa Including tag.
UniProt:	Q6J4K2
Pathways:	Carbohydrate Homeostasis
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:	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	
Handling Format:	Liquid
-	Liquid 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Format:	
Format: Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

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Handling
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Expiry Date:

Unlimited (if stored properly)

Images

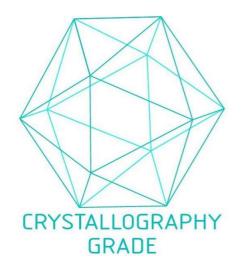


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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