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Datasheet for ABIN3129271 KCNE2 Protein (AA 1-123) (rho-1D4 tag)



Overview

Image

Overview	
Quantity:	1 mg
Target:	KCNE2
Protein Characteristics:	AA 1-123
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNE2 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)
Product Details	
Sequence:	MATLANLTQT LEDAFKKIFI TYMDSWRRNT TAEEQALQAR VDAENFYYVI LYLMVMIGMF
	SFIVVAILVS TVKSKRREHS QHPYHQYIVE DWQEKYKSQI LHLEDSKATI HENMGATGFT VSP
	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 Kcne2 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 proteir

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Product Details	
	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 the 1D4 tag via two the 1D4 antibady calumney and DTT register the other and pet Flucts
	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
Target Details	
Target:	KCNE2
Alternative Name:	Kcne2 (KCNE2 Products)

Background:Ancillary protein that assembles as a beta subunit with a voltage-gated potassium channel
complex of pore-forming alpha subunits. Modulates the gating kinetics and enhances stability
of the channel complex. Assembled with KCNB1 modulates the gating characteristics of the

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	delayed rectifier voltage-dependent potassium channel KCNB1. Associated with KCNH2/HERG
	is proposed to form the rapidly activating component of the delayed rectifying potassium
	current in heart (IKr). May associate with KCNQ2 and/or KCNQ3 and modulate the native M-
	type current. May associate with HCN1 and HCN2 and increase potassium current (By
	similarity). Interacts with KCNQ1, forms a heterooligomer complex leading to currents with an
	apparently instantaneous activation, a rapid deactivation process and a linear current-voltage
	relationship and decreases the amplitude of the outward current (By similarity).
	{ECO:0000250 UniProtKB:P63161, ECO:0000250 UniProtKB:Q9Y6J6}.
Molecular Weight:	15.5 kDa Including tag.
UniProt:	Q9D808
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.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

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

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