

Datasheet for ABIN3119568 KCNE2 Protein (AA 1-123) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	KCNE2
Protein Characteristics:	AA 1-123
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNE2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSTLSNFTQT LEDVFRRIFI TYMDNWRQNT TAEQEALQAK VDAENFYYVI LYLMVMIGMF
	SFIIVAILVS TVKSKRREHS NDPYHQYIVE DWQEKYKSQI LNLEESKATI HENIGAAGFK MSP
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	system, a different complexity of the protein could make another tag necessary. In case you
	have a special request, please contact us.
Characteristics:	Key Benefits:
	• Made in Germany - from design to production - by highly experienced protein experts.
	Protein expressed with ALiCE® and purified in one-step affinity chromatography
	These proteins are normally active (enzymatically functional) as our customers have
	reported (not tested by us and not guaranteed).
	State-of-the-art algorithm used for plasmid design (Gene synthesis).

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 ABIN3119568 | 02/25/2025 | Copyright antibodies-online. All rights reserved. This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble 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.

Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	KCNE2
Alternative Name:	KCNE2 (KCNE2 Products)
Background:	Potassium voltage-gated channel subfamily E member 2 (MinK-related peptide 1) (Minimum potassium ion channel-related peptide 1) (Potassium channel subunit beta MiRP1),FUNCTION:
	Ancillary protein that assembles as a beta subunit with a voltage-gated potassium channel

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	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
	delayed rectifier voltage-dependent potassium channel KCNB1. Associated with KCNH2/HERC
	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. 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 (PubMed:11101505). KCNQ1-KCNE2
	channel associates with Na(+)-coupled myo-inositol symporter in the apical membrane of
	choroid plexus epithelium and regulates the myo-inositol gradient between blood and
	cerebrospinal fluid with an impact on neuron excitability. {ECO:0000250 UniProtKB:P63161,
	ECO:0000250 UniProtKB:Q9D808, ECO:0000269 PubMed:10219239,
	ECO:0000269 PubMed:11101505}.
Molecular Weight:	14.5 kDa
JniProt:	Q9Y6J6
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
	guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational
	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!

Restrictions:

For Research Use only

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Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months