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Datasheet for ABIN3119071 KCNH3 Protein (AA 1-1083) (Strep Tag)





Overview

Quantity:	1 mg
Target:	KCNH3 (Kcnh3)
Protein Characteristics:	AA 1-1083
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNH3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MPAMRGLLAP QNTFLDTIAT RFDGTHSNFV LGNAQVAGLF PVVYCSDGFC DLTGFSRAEV
	MQRGCACSFL YGPDTSELVR QQIRKALDEH KEFKAELILY RKSGLPFWCL LDVIPIKNEK
	GEVALFLVSH KDISETKNRG GPDRWKETGG GRRRYGRARS KGFNANRRRS RAVLYHLSGH
	LQKQPKGKHK LNKGVFGEKP NLPEYKVAAI RKSPFILLHC GALRATWDGF ILLATLYVAV
	TVPYSVCVST AREPSAARGP PSVCDLAVEV LFILDIVLNF RTTFVSKSGQ VVFAPKSICL
	HYVTTWFLLD VIAALPFDLL HAFKVNVYFG AHLLKTVRLL RLLRLLPRLD RYSQYSAVVL
	TLLMAVFALL AHWVACVWFY IGQREIESSE SELPEIGWLQ ELARRLETPY YLVGRRPAGG
	NSSGQSDNCS SSSEANGTGL ELLGGPSLRS AYITSLYFAL SSLTSVGFGN VSANTDTEKI
	FSICTMLIGA LMHAVVFGNV TAIIQRMYAR RFLYHSRTRD LRDYIRIHRI PKPLKQRMLE
	YFQATWAVNN GIDTTELLQS LPDELRADIA MHLHKEVLQL PLFEAASRGC LRALSLALRP
	AFCTPGEYLI HQGDALQALY FVCSGSMEVL KGGTVLAILG KGDLIGCELP RREQVVKANA
	DVKGLTYCVL QCLQLAGLHD SLALYPEFAP RFSRGLRGEL SYNLGAGGGS AEVDTSSLSG

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 ABIN3119071 | 04/16/2024 | Copyright antibodies-online. All rights reserved. DNTLMSTLEE KETDGEQGPT VSPAPADEPS SPLLSPGCTS SSSAAKLLSP RRTAPRPRLG GRGRPGRAGA LKAEAGPSAP PRALEGLRLP PMPWNVPPDL SPRVVDGIED GCGSDQPKFS FRVGQSGPEC SSSPSPGPES GLLTVPHGPS EARNTDTLDK LRQAVTELSE QVLQMREGLQ SLRQAVQLVL APHREGPCPR ASGEGPCPAS TSGLLQPLCV DTGASSYCLQ PPAGSVLSGT WPHPRPGPPP LMAPWPWGPP ASQSSPWPRA TAFWTSTSDS EPPASGDLCS EPSTPASPPP SEEGARTGPA EPVSQAEATS TGEPPPGSGG LALPWDPHSL EMVLIGCHGS GTVQWTQEEG TGV 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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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).

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.

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.

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	 The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	KCNH3 (Kcnh3)
Alternative Name:	KCNH3 (Kcnh3 Products)
Background:	Potassium voltage-gated channel subfamily H member 3 (Brain-specific eag-like channel 1) (BEC1) (Ether-a-go-go-like potassium channel 2) (ELK channel 2) (ELK2) (Voltage-gated potassium channel subunit Kv12.2),FUNCTION: Pore-forming (alpha) subunit of voltage-gated potassium channel. Elicits an outward current with fast inactivation. Channel properties may be modulated by cAMP and subunit assembly.
Molecular Weight:	117.1 kDa
UniProt:	Q9ULD8

Application Details

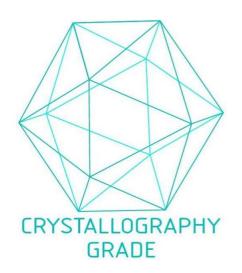
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce

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	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
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,
	please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Images

Expiry Date:



Unlimited (if stored properly)

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

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