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## Datasheet for ABIN3134537 KCNN2 Protein (AA 1-839) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	KCNN2
Protein Characteristics:	AA 1-839
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNN2 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

## Product Details

Sequence:	MPIVLVRPTN RTRRLDSTGA GMGPSSHQQQ ESPLPTITHC AGCTTAWSPC SFNSSDMETP
	LQFQRGFFPE QPPPPPRSSH LHCQQQQQSQ DKPCAPFAPL PHPHHHPHLA HQQPGSGGSS
	PCLRCNSCAS SGAPAAGAGA GDNLSLLLRT SSPGGAFRTR TSSPLSGSSC CCCCSSRRGS
	QLNVSELTPS SHASALRQQY AQQPASASQY HQCHSLQPAT SPTGSLGSLG SGPPLSHHHH
	HPHPAHHQHH QPQARRESNP FTEIAMSSCR YNGGVMRPLS NLSSSRRNLQ EMDSEAQPLQ
	PPASVVGGGG GASSPSAAAA ASSSAPEIVV SKPEHNNSNN LALYGTGGGG STGGGGGGGG
	HGSSSGTKSS KKKNQNIGYK LGHRRALFEK RKRLSDYALI FGMFGIVVMV IETELSWGAY
	DKASLYSLAL KCLISLSTII LLGLIIVYHA REIQLFMVDN GADDWRIAMT YERIFFICLE ILVCAIHPIP
	GNYTFTWTAR LAFSYAPSTT TADVDIILSI PMFLRLYLIA RVMLLHSKLF TDASSRSIGA
	LNKINFNTRF VMKTLMTICP GTVLLVFSIS LWIIAAWTVR ACERYHDQQD VTSNFLGAMW
	LISITFLSIG YGDMVPNTYC GKGVCLLTGI MGAGCTALVV AVVARKLELT KAEKHVHNFM
	MDTQLTKRVK NAAANVLRET WLIYKNTKLV KKIDHAKVRK HQRKFLQAIH QLRSVKMEQR

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	KLNDQANTLV DLAKTQNIMY DMISDLNERS EDFEKRIVTL ETKLETLIGS IHALPGLISQ
	TIRQQQRDFI ETQMENYDKH VSYNAERSRS SSRRRRSSST APPTSSESS
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Kcnn2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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:
	<ol> <li>Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.</li> <li>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.</li> <li>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.</li> </ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Product Details		
Sterility:	0.22 µm filtered	
Endotoxin Level:	Protein is endotoxin-free.	
Grade:	Crystallography grade	
Target Details		
Target:	KCNN2	
Alternative Name:	Kcnn2 (KCNN2 Products)	
Background:	Forms a voltage-independent potassium channel activated by intracellular calcium. Activation is followed by membrane hyperpolarization. Thought to regulate neuronal excitability by contributing to the slow component of synaptic afterhyperpolarization. The channel is blocked by apamin. {ECO:0000269 PubMed:11557517, ECO:0000269 PubMed:13679367, ECO:0000269 PubMed:14657188}.	
Molecular Weight:	92.8 kDa Including tag.	
UniProt:	P58390	
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	

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 Storage Comment:
 Store at -80°C.

 Expiry Date:
 Unlimited (if stored properly)

Images



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

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