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# KCNJ2 Protein (AA 179-427) (His tag)



## Image



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## Overview

Quantity:	1 mg
Target:	KCNJ2
Protein Characteristics:	AA 179-427
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNJ2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)
Product Details	
Sequence:	VMAKMAKPKK RNETLVFSHN AVIAMRDGKL CLMWRVGNLR KSHLVEAHVR AQLLKSRITS
Sequence:	VMAKMAKPKK RNETLVFSHN AVIAMRDGKL CLMWRVGNLR KSHLVEAHVR AQLLKSRITS  EGEYIPLDQI DINVGFDSGI DRIFLVSPIT IVHEIDEDSP LYDLSKQDID NADFEIVVIL EGMVEATAMT
Sequence:	
Sequence:	EGEYIPLDQI DINVGFDSGI DRIFLVSPIT IVHEIDEDSP LYDLSKQDID NADFEIVVIL EGMVEATAMT
Sequence:	EGEYIPLDQI DINVGFDSGI DRIFLVSPIT IVHEIDEDSP LYDLSKQDID NADFEIVVIL EGMVEATAMT TQCRSSYLAN EILWGHRYEP VLFEEKHYYK VDYSRFHKTY EVPNTPLCSA RDLAEKKYIL
Sequence:	EGEYIPLDQI DINVGFDSGI DRIFLVSPIT IVHEIDEDSP LYDLSKQDID NADFEIVVIL EGMVEATAMT TQCRSSYLAN EILWGHRYEP VLFEEKHYYK VDYSRFHKTY EVPNTPLCSA RDLAEKKYIL SNANSFCYEN EVALTSKEED DSENGVPEST STDTPPDIDL HNQASVPLEP RPLRRESEI
Sequence:  Characteristics:	EGEYIPLDQI DINVGFDSGI DRIFLVSPIT IVHEIDEDSP LYDLSKQDID NADFEIVVIL EGMVEATAMT TQCRSSYLAN EILWGHRYEP VLFEEKHYYK VDYSRFHKTY EVPNTPLCSA RDLAEKKYIL SNANSFCYEN EVALTSKEED DSENGVPEST STDTPPDIDL HNQASVPLEP RPLRRESEI Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

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:

Two step purification of proteins expressed in bacterial culture:

- In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. 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:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

## **Target Details**

Target:	KCNJ2
Alternative Name:	KCNJ2 (KCNJ2 Products)
Background:	Probably participates in establishing action potential waveform and excitability of neuronal and
	muscle tissues. Inward rectifier potassium channels are characterized by a greater tendency to
	allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated

Target Details	
	by the concentration of extracellular potassium, as external potassium is raised, the voltage range of the channel opening shifts to more positive voltages. The inward rectification is mainly due to the blockage of outward current by internal magnesium. Can be blocked by extracellular barium or cesium.
Molecular Weight:	29.4 kDa Including tag.
UniProt:	P63252
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:	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

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.
Expiry Date:	Unlimited (if stored properly)



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