

Datasheet for ABIN7563414  
**KCNJ4 Protein (AA 1-445) (His tag)**



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## Overview

Quantity:	1 mg
Target:	KCNJ4
Protein Characteristics:	AA 1-445
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNJ4 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Kcnj4 Protein expressed in mammalian cells.
Sequence:	MHGHNRRNGQA HVPRRKRRNR FVKKNGQCNV YFANLSNKSQ RYMADIFTTC VDTRWRYMLM IFSAAFLVSW LFFGLLFWWI AFFHGDLEAS PSVPAVGGPG GNGGESPAP KPCIMHVNGF LGAFLLSVET QTTIGYGFRC VTEECPLAVI AVVVQSIVGC VIDSFMIGTI MAKMARPKKR AQTLFSHHA VISVRDGKLC LMWRVGNLRK SHIVEAHVRA QLIKPYMTQE GEYLPLDQRD LNVGYDIGLD RIFLVSPIII VHEIDEDSPL YGMGKEELES EDFEIVVILE GMVEATAMTT QARSSYLASE ILWGHFRFEPV VFEEKSHYKV DYSRFHKTYE VAGTPCCSAR ELQESKITVL PAPPPPPSAF CYENELALMS QEEEEEMEEEA AAAAAVAAGL GLEAGSKEEA GIIRMLFEGS HLDLERMQAA TLPLDNISYR RESRI <b>Sequence without tag. The proposed Purification-Tag is based on experiences 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.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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### Grade:

custom-made

## Target Details

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### Target:

KCNJ4

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### Alternative Name:

Kcnj4 ([KCNJ4 Products](#))

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### Background:

Inward rectifier potassium channel 4 (Inward rectifier K(+) channel Kir2.3) (IRK-3) (Potassium channel, inwardly rectifying subfamily J member 4),FUNCTION: 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 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 and cesium (By similarity). {ECO:0000250}.

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### Molecular Weight:

49.9 kDa

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### UniProt:

[P52189](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months