

Datasheet for ABIN7563320
KCNJ5 Protein (AA 1-419) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	KCNJ5
Protein Characteristics:	AA 1-419
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNJ5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Kcnj5 Protein expressed in mammalian cells.
Sequence:	<p>MAGDSRNAMN QDMEIGVTSQ DHKKIPKQAR DYIPIATDRT RLLTEGKKPR QRYMEKTGKC NVHHGNVQET YRYLSDLFTT LVDLKWRFNL LVFTMVYTIT WLFFGFIWWL IAYVRGDLDH VGDQEWIPCV ENLSGFVSAF LFSIETETTI GYGFRVITEK CPEGIILLV QAILGSIVNA FMVGCMFVKI SQPKKRAETL MFSNNAVISM RDEKLCLMFR VGDLRNSHIV EASIRAKLIK SRQTKEGEFI PLNQTDINVG FDTGDDRLFL VSPLISHEI NEKSPFWEMS RAQLEQEEFE VVVILEGMVE ATGMTQCQARS SYMDTEVLWG HRFTPVLTL KGFYEVDYNT FHDITYETNTP SCCAKELAEM KRSGRLLQYL PSPPLLGGCA EAGNEAEAEK DEEGEPNGLS VSQATRGSM</p> <p>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.</p> <p>In case you have a special request, please contact us.</p>
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

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.

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

Grade:	custom-made
--------	-------------

Target Details

Target:	KCNJ5
---------	-------

Alternative Name:	Kcnj5 (KCNJ5 Products)
-------------------	--

Background:	G protein-activated inward rectifier potassium channel 4 (GIRK-4) (Cardiac inward rectifier) (CIR) (Heart KATP channel) (Inward rectifier K(+) channel Kir3.4) (KATP-1) (Potassium channel, inwardly rectifying subfamily J member 5),FUNCTION: This potassium channel is controlled by G proteins. 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 external barium. {ECO:0000269 PubMed:7499385}.
-------------	--

Molecular Weight:	47.7 kDa
-------------------	----------

UniProt:	P48545
----------	------------------------

Pathways:	Notch Signaling
-----------	---------------------------------

Application Details

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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months