Datasheet for ABIN7565120

KCNJ10 Protein (AA 1-379) (His tag)

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Overview

Quantity:	1 mg
Target:	KCNJ10
Protein Characteristics:	AA 1-379
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNJ10 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Kcnj10 Protein expressed in mammalian cells.
Sequence:	MTSVAKVYYS QTTQTESRPL VAPGIRRRRV LTKDGRSNVR MEHIADKRFL YLKDLWTTFI DMQWRYKLLL FSATFAGTWF LFGVVWYLVA VAHGDLLELG PPANHTPCVV QVHTLTGAFL FSLESQTTIG YGFRYISEEC PLAIVLLIAQ LVLTTILEIF ITGTFLAKIA RPKKRAETIR FSQHAVVASH NGKPCLMIRV ANMRKSLLIG CQVTGKLLQT HQTKEGENIR LNQVNVTFQV DTASDSPFLI LPLTFYHVVD ETSPLKDLPL RSGEGDFELV LILSGTVEST SATCQVRTSY LPEEILWGYE FTPAISLSAS GKYIADFSLF DQVVKVASPS GLRDSTVRYG DPEKLKLEES LREQAEKEGS ALSVRISNV **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.**
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.
Characteristics:	Key Benefits:

Product Details

- 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:	KCNJ10
Alternative Name:	Kcnj10 (KCNJ10 Products)
Background:	ATP-sensitive inward rectifier potassium channel 10 (Inward rectifier K(+) channel Kir4.1) (Potassium channel, inwardly rectifying subfamily J member 10),FUNCTION: May be responsible for potassium buffering action of glial cells in the brain. 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). In the kidney, together with KCNJ16, mediates basolateral K(+) recycling in distal tubules, this process is critical for Na(+) reabsorption at the tubules (By similarity). {ECO:0000250, ECO:0000250|UniProtKB:P78508}.
Molecular Weight:	42.4 kDa
UniProt:	Q9JM63

Target Details

Pathways:	Dicarboxylic Acid Transport, Regulation of long-term Neuronal Synaptic Plasticity

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

