Datasheet for ABIN7554262

KCNJ11 Protein (AA 1-390) (His tag)

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Overview

Quantity:	1 mg
Target:	KCNJ11
Protein Characteristics:	AA 1-390
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNJ11 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant KCNJ11 Protein expressed in mammalian cells.
Sequence:	MLSRKGIIPE EYVLTRLAED PAKPRYRARQ RRARFVSKKG NCNVAHKNIR EQGRFLQDVF TTLVDLKWPH TLLIFTMSFL CSWLLFAMAW WLIAFAHGDL APSEGTAEPC VTSIHSFSSA FLFSIEVQVT IGFGGRMVTE ECPLAILILI VQNIVGLMIN AIMLGCIFMK TAQAHRRAET LIFSKHAVIA LRHGRLCFML RVGDLRKSMI ISATIHMQVV RKTTSPEGEV VPLHQVDIPM ENGVGGNSIF LVAPLIIYHV IDANSPLYDL APSDLHHHQD LEIIVILEGV VETTGITTQA RTSYLADEIL WGQRFVPIVA EEDGRYSVDY SKFGNTVKVP TPLCTARQLD EDHSLLEALT LASARGPLRK RSVPMAKAKP KFSISPDSLS **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:	KCNJ11
Alternative Name:	KCNJ11 (KCNJ11 Products)
Background:	ATP-sensitive inward rectifier potassium channel 11 (IKATP) (Inward rectifier K(+) channel Kir6.2) (Potassium channel, inwardly rectifying subfamily J member 11),FUNCTION: This receptor 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 extracellular barium (By similarity). Subunit of ATP-sensitive potassium channels (KATP). Can form cardiac and smooth muscle-type KATP channels with ABCC9. KCNJ11 forms the channel pore while ABCC9 is required for activation and regulation. {ECO:0000250, ECO:0000269|PubMed:17855752, ECO:0000269|PubMed:28842488, ECO:0000269|PubMed:9831708}.
Molecular Weight:	43.5 kDa
UniProt:	Q14654

Target Details

Pathways:	Negative Regulation of Hormone Secretion

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

