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Datasheet for ABIN7562593
KCNJ1 Protein (AA 1-372) (His tag)

Overview

Quantity:	1 mg
Target:	KCNJ1
Protein Characteristics:	AA 1-372
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNJ1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Kcnj1 Protein expressed in mammalian cells.
Sequence:	<p>MFKHLRRWFV THIFGRSRQR ARLVSKDGRC NIEFGNVDAQ SRFIFFVDIW TTVLDLKWRY KMTVFITAFL GSWFLFGLLW YVWAYVHKDL PEFYPPDNRT PCVENINGMT SAFLFSLETQ VTIGYGFRFV TEQCATAIFL LIFQSILGVI INFSMCGAIL AKISRPKKRA KTITFSKNAV ISKRGGKLC LIRVANLRKS LLIGSHIYGK LLKTTITPEG ETIILDQTN I NFVVDAGNEN LFFISPLTIY HIIDHNSPFF HMAAETLSQQ DFELVVFLDG TVESTSATCQ VRTSYIPEEV LWGYRFVPIV SKTKEGKYRV DFHNFVKTE VETPHCAMCL YNEKDARARM KRGYDNPNFV LSEVDETDDT QM 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.</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.
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)
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Grade:	custom-made
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Target Details

Target:	KCNJ1
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Alternative Name:	Kcnj1 (KCNJ1 Products)
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Background:	ATP-sensitive inward rectifier potassium channel 1 (ATP-regulated potassium channel ROM-K) (Inward rectifier K(+) channel Kir1.1) (Potassium channel, inwardly rectifying subfamily J member 1),FUNCTION: In the kidney, probably plays a major role in potassium homeostasis. 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. This channel is activated by internal ATP and can be blocked by external barium (By similarity). {ECO:0000250 UniProtKB:P48048}.
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Molecular Weight:	42.8 kDa
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UniProt:	O88335
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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
