Datasheet for ABIN7554294

KIR5.1 Protein (AA 1-418) (His tag)

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Overview

Quantity:	1 mg
Target:	KIR5.1 (KCNJ16)
Protein Characteristics:	AA 1-418
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIR5.1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat KCNJ16 Protein expressed in mammalien cells.
Sequence:	MSYYGSSYHI INADAKYPGY PPEHIIAEKR RARRRLLHKD GSCNVYFKHI FGEWGSYVVD IFTTLVDTKW RHMFVIFSLS YILSWLIFGS VFWLIAFHHG DLLNDPDITP CVDNVHSFTG AFLFSLETQT TIGYGYRCVT EECSVAVLMV ILQSILSCII NTFIIGAALA KMATARKRAQ TIRFSYFALI GMRDGKLCLM WRIGDFRPNH VVEGTVRAQL LRYTEDSEGR MTMAFKDLKL VNDQIILVTP VTIVHEIDHE SPLYALDRKA VAKDNFEILV TFIYTGDSTG TSHQSRSSYV PREILWGHRF NDVLEVKRKY YKVNCLQFEG SVEVYAPFCS AKQLDWKDQQ LHIEKAPPVR ESCTSDTKAR RRSFSAVAIV SSCENPEETT TSATHEYRET PYQKALLTLN RISVESQM **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.**
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	KIR5.1 (KCNJ16)
Alternative Name:	KCNJ16 (KCNJ16 Products)
Background:	Inward rectifier potassium channel 16 (Inward rectifier K(+) channel Kir5.1) (Potassium channel, inwardly rectifying subfamily J member 16),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. KCNJ16 may be involved in the regulation of fluid and pH balance. In the kidney, together with KCNJ10, mediates basolateral K(+) recycling in distal tubules, this process is critical for Na(+) reabsorption at the tubules (PubMed:24561201). {ECO:0000305|PubMed:24561201}.
Molecular Weight:	47.9 kDa
UniProt:	Q9NPI9

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. 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