Datasheet for ABIN7554319

Kir2.2 Protein (AA 1-433) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	Kir2.2 (KCNJ12)
Protein Characteristics:	AA 1-433
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Kir2.2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat KCNJ12 Protein expressed in mammalien cells.
Sequence:	MTAASRANPY SIVSSEEDGL HLVTMSGANG FGNGKVHTRR RCRNRFVKKN GQCNIEFANM DEKSQRYLAD MFTTCVDIRW RYMLLIFSLA FLASWLLFGI IFWVIAVAHG DLEPAEGRGR TPCVMQVHGF MAAFLFSIET QTTIGYGLRC VTEECPVAVF MVVAQSIVGC IIDSFMIGAI MAKMARPKKR AQTLLFSHNA VVALRDGKLC LMWRVGNLRK SHIVEAHVRA QLIKPRVTEE GEYIPLDQID IDVGFDKGLD RIFLVSPITI LHEIDEASPL FGISRQDLET DDFEIVVILE GMVEATAMTT QARSSYLANE ILWGHRFEPV LFEEKNQYKI DYSHFHKTYE VPSTPRCSAK DLVENKFLLP SANSFCYENE LAFLSRDEED EADGDQDGRS RDGLSPQARH DFDRLQAGGG VLEQRPYRRE SEI **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:	Kir2.2 (KCNJ12)
Alternative Name:	KCNJ12 (KCNJ12 Products)
Background:	ATP-sensitive inward rectifier potassium channel 12 (Inward rectifier K(+) channel Kir2.2) (IRK-2) (Inward rectifier K(+) channel Kir2.2v) (Potassium channel, inwardly rectifying subfamily J member 12),FUNCTION: Inward rectifying potassium channel that is activated by phosphatidylinositol 4,5-bisphosphate and that probably participates in controlling the resting membrane potential in electrically excitable cells. Probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues. 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. {ECO:0000269|PubMed:12417321, ECO:0000269|PubMed:20921230, ECO:0000269|PubMed:7859381, ECO:0000269|PubMed:8647284}.
Molecular Weight:	49.0 kDa

Target Details

UniProt:	Q14500

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