Datasheet for ABIN7554249

KCNK2 Protein (AA 1-426) (His tag)

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Overview

Quantity:	1 mg
Target:	KCNK2
Protein Characteristics:	AA 1-426
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNK2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat KCNK2 Protein expressed in mammalien cells.
Sequence:	MLPSASRERP GYRAGVAAPD LLDPKSAAQN SKPRLSFSTK PTVLASRVES DTTINVMKWK TVSTIFLVVV LYLIIGATVF KALEQPHEIS QRTTIVIQKQ TFISQHSCVN STELDELIQQ IVAAINAGII PLGNTSNQIS HWDLGSSFFF AGTVITTIGF GNISPRTEGG KIFCIIYALL GIPLFGFLLA GVGDQLGTIF GKGIAKVEDT FIKWNVSQTK IRIISTIIFI LFGCVLFVAL PAIIFKHIEG WSALDAIYFV VITLTTIGFG DYVAGGSDIE YLDFYKPVVW FWILVGLAYF AAVLSMIGDW LRVISKKTKE EVGEFRAHAA EWTANVTAEF KETRRRLSVE IYDKFQRATS IKRKLSAELA GNHNQELTPC RRTLSVNHLT SERDVLPPLL KTESIYLNGL TPHCAGEEIA VIENIK **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:	KCNK2
Alternative Name:	KCNK2 (KCNK2 Products)
Background:	Potassium channel subfamily K member 2 (Outward rectifying potassium channel protein TREK-1) (TREK-1 K(+) channel subunit) (Two pore domain potassium channel TREK-1) (Two pore potassium channel TPKC1),FUNCTION: Ion channel that contributes to passive transmembrane potassium transport (PubMed:23169818). Reversibly converts between a voltage-insensitive potassium leak channel and a voltage-dependent outward rectifying potassium channel in a phosphorylation-dependent manner (PubMed:11319556). In astrocytes, forms mostly heterodimeric potassium channels with KCNK1, with only a minor proportion of functional channels containing homodimeric KCNK2. In astrocytes, the heterodimer formed by KCNK1 and KCNK2 is required for rapid glutamate release in response to activation of G-protein coupled receptors, such as F2R and CNR1 (By similarity). {ECO:0000250|UniProtKB:P97438, ECO:0000269|PubMed:10784345, ECO:0000269|PubMed:11319556, ECO:0000269|PubMed:23169818}., FUNCTION: [Isoform 4]: Does not display channel activity but reduces the channel activity of isoform 1 and isoform 2 and reduces cell surface expression of isoform 2. {ECO:0000250}.

Target Details

Molecular Weight:	47.1 kDa
UniProt:	O95069

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

