

Potassium channel subfamily K member 2 Recombinant Protein | KCNK2 recombinant protein

Recombinant Human Potassium channel subfamily K member 2

CATALOG # AAA116017	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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PRODUCT SYNONYMS

Potassium channel subfamily K member 2; Recombinant Human 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; KCNK2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-143
Sequence	MLPSASRERP GYRAGVAAPD LLDPKSAAQN SKPRLSFSTK PTVLASRVES DTTINVMKWK TVSTIFLVVV LYLIIGATVF KALEQPHEIS QRTTIVIQKQ TFISQHSVCN STELDELIQQ IVAAINAGII PLGNTSNQIS HWD
Sequence Length	422
Species	Homo sapiens (Human)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for KCNK2 recombinant protein	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
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Product Categories/Family for KCNK2 recombinant protein	Neuroscience
References	"Cloning, localisation and functional expression of the human orthologue of the TREK-1 potassium channel." Meadows H.J., Benham C.D., Cairns W., Gloger I., Jennings C., Medhurst A.D., Murdock P., Chapman C.G. Pflugers Arch. 439:714-722(2000)

NCBI AND UNIPROT INFORMATION

NCBI GI #	62912487
NCBI GeneID	3776
NCBI Accession #	NP_001017424.1
NCBI GenBank Nucleotide #	NM_001017424.2
UniProt Accession #	O95069; Q5DP47; Q5DP48; Q9NRT2; Q9UNE3; A1Z1V3; A8K618; B2RCS4; B7ZL56; D3DTA5
Molecular Weight	17.7 kDa
NCBI Official Full Name	potassium channel subfamily K member 2 isoform a
NCBI Official Synonym Full Names	potassium two pore domain channel subfamily K member 2
NCBI Official Symbol	KCNK2
NCBI Official Synonym Symbols	TREK; TPKC1; TREK1; K2p2.1; TREK-1; hTREK-1c; hTREK-1e
NCBI Protein Information	potassium channel subfamily K member 2
UniProt Protein Name	Potassium channel subfamily K member 2
UniProt Gene Name	KCNK2
UniProt Synonym Gene Names	TREK; TREK1
UniProt Entry Name	KCNK2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.