KCNK3 Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	KCNK3, Blocking Peptide
Full Product Name	KCNK3 Blocking Peptide
Product Gene Name	KCNK3 blocking peptide
Product Synonym Names	TASK; TASK1; Potassium channel subfamily K member 3; Acid-sensitive potassium channel protein TASK-1; TWIK-related acid-sensitive K(+) channel 1; Two pore potassium channel KT3.1; Two pore K(+) channel KT3.1
Host	Synthetic
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized Powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	KCNK3 peptide (MBS8243758) is used for blocking the activity of KCNK3 antibody (MBS8242326)
Molecular Weight	43,518 Da
OMIM	603220
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for KCNK3 blocking peptide	Blocking (BL)
Application Notes for KCNK3 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for KCNK3 blocking peptide	MBS8243758 is a blocking peptide targeting KCNK3. Reactive in Human, Mouse, Rat. Host: Synthetic. The peptide is used to block Anti-KCNK3 Antibody reactivity.
Other Notes	Small volumes of KCNK3 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KCNK3. It may not necessarily be applicable to this product.

NCBI GI #	13124040
NCBI GeneID	3777
NCBI Accession #	O14649.1
UniProt Primary Accession #	O14649
UniProt Secondary Accession #	Q53SU2
UniProt Related Accession #	O14649
NCBI Official Full Name	Potassium channel subfamily K member 3
NCBI Official Synonym Full Names	potassium two pore domain channel subfamily K member 3

NCBI Official Symbol	KCNK3
NCBI Official Synonym Symbols	OAT1; PPH4; TASK; TBAK1; K2p3.1; TASK-1
UniProt Protein Name	Potassium channel subfamily K member 3
UniProt Synonym Protein Names	Acid-sensitive potassium channel protein TASK-1; TWIK-related acid-sensitive K(+) channel 1; Two pore potassium channel KT3.1; Two pore K(+) channel KT3.1
Protein Family	Potassium channel subfamily
UniProt Gene Name	KCNK3
UniProt Synonym Gene Names	TASK; TASK1; Two pore K(+) channel KT3.1
UniProt Entry Name	KCNK3_HUMAN
NCBI Protein Information	potassium channel subfamily K member 3
NCBI Summary for KCNK3	This gene encodes a member of the superfamily of potassium channel proteins that contain two pore-forming P domains. The encoded protein is an outwardly rectifying channel that is sensitive to changes in extracellular pH and is inhibited by extracellular acidification. Also referred to as an acid-sensitive potassium channel, it is activated by the anesthetics halothane and isoflurane. Although three transcripts are detected in northern blots, there is currently no sequence available to confirm transcript variants for this gene. [provided by RefSeq, Aug 2008]
UniProt Comments for KCNK3	KCNK3: pH-dependent, voltage-insensitive, background potassium channel protein. Rectification direction results from potassium ion concentration on either side of the membrane. Acts as an outward rectifier when external potassium concentration is low. When external potassium concentration is high, current is inward. Widespread expression in adult. Strongest expression in pancreas and placenta. Lower expression in brain, lung, prostate, heart, kidney, uterus, small intestine and colon. Belongs to the two pore domain potassium channel (TC 1.A.1.8) family. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Channel, potassium Chromosomal Location of Human Ortholog: 2p23 Cellular Component: cytosol; integral to plasma membrane; plasma membrane Molecular Function: ion channel activity; open rectifier potassium channel activity; potassium channel activity; potassium ion leak channel activity; protein C-terminus binding; protein heterodimerization activity; protein homodimerization activity Biological Process: brain development; potassium ion transport; reduction of cytosolic calcium ion concentration; response to drug; stabilization of membrane potential; synaptic transmission Disease: Pulmonary Hypertension, Primary, 4
Research Articles on KCNK3	**1.** TASK-1 and TASK-3 may form heterodimers in human atrial cardiomyocytes.
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