KCNG3 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	KCNG3, Blocking Peptide
Full Product Name	KCNG3 Blocking Peptide
Product Gene Name	KCNG3 blocking peptide
Product Synonym Names	KCNG 3; Kcng3; KCNG3_HUMAN; KV10.1; Kv10.1a; Kv10.1b; KV6.3; OTTHUMP00000201478; OTTHUMP00000201479; Potassium voltage gated channel subfamily G member 3; Potassium voltage-gated channel subfamily G member 3; Voltage gated potassium channel 6.3; Voltage gated potassium channel Kv10.1; Voltage gated potassium channel subunit Kv10.1; Voltage gated potassium channel subunit Kv6.3; Voltage gated potassium channel subunit Kv6.4; Voltage-gated potassium channel subunit Kv10.1; Voltage-gated potassium channel subunit Kv6.3
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	KCNG3 peptide (MBS9624489) is used for blocking the activity of KCNG3 antibody (MBS9605772)
Molecular Weight	49,593 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (42669157..42721237, complement). Location: 2p21
OMIM	606767
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for KCNG3 blocking peptide	Blocking/Control
Related Product Information for KCNG3 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of KCNG3 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.
Searchable Terms for KCNG3 purchase	MBS9624489 is a blocking peptide targeting KCNG3.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KCNG3. It may not necessarily be applicable to this product.

NCBI GI #	19071574
NCBI GeneID	170850

NCBI Accession #	NP_579875.1
UniProt Primary Accession #	Q8TAE7
UniProt Secondary Accession #	Q53SC1
UniProt Related Accession #	Q8TAE7
GenBank Nucleotide #	NM_133329.5
NCBI Official Full Name	potassium voltage-gated channel subfamily G member 3 isoform 1
NCBI Official Synonym Full Names	potassium voltage-gated channel, subfamily G, member 3
NCBI Official Symbol	KCNG3
NCBI Official Synonym Symbols	KV6.3; KV10.1
UniProt Protein Name	Potassium voltage-gated channel subfamily G member 3
UniProt Synonym Protein Names	Voltage-gated potassium channel subunit Kv10.1; Voltage-gated potassium channel subunit Kv6.3
Protein Family	Potassium voltage-gated channel subfamily
UniProt Gene Name	KCNG3
UniProt Entry Name	KCNG3_HUMAN
NCBI Protein Information	potassium voltage-gated channel subfamily G member 3; voltage-gated potassium channel 6.3; voltage-gated potassium channel Kv10.1; voltage-gated potassium channel subunit Kv6.3; voltage-gated potassium channel subunit Kv6.4; voltage-gated potassium channe
NCBI Summary for KCNG3	Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium channel, voltage-gated, subfamily G. This member is a gamma subunit functioning as a modulatory molecule. Alternative splicing results in two transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for KCNG3	KCNG3: Potassium channel subunit. Modulates channel activity. Belongs to the potassium channel family. G (TC 1.A.1.2) subfamily. Kv6.3/KCNG3 sub-subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 2p21 Cellular Component: voltage-gated potassium channel complex; endoplasmic reticulum; integral to membrane; plasma membrane Molecular Function: protein binding; delayed rectifier potassium channel activity Biological Process: synaptic transmission; protein homooligomerization
Research Articles on KCNG3	**1.** [review] an overview of the current status of data linking K(V)10.1 to cancer, and techniques that could exploit K(V)10.1's properties for the management of cancer
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