KCNIP2 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	KCNIP2, Blocking Peptide
Full Product Name	KCNIP2 Peptide - N-terminal region
Product Gene Name	KCNIP2 blocking peptide
Product Synonym Gene Name	DKFZp566L1246; KCHIP2; MGC17241
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	KCNIP2 peptide (MBS3227594) is used for blocking the activity of KCNIP2 antibody (MBS3202615)
Molecular Weight	32kDa
OMIM	604661
Product Categories/Family for KCNIP2 blocking peptide	Peptide
Applications Tested/Suitable for KCNIP2 blocking peptide	Western Blot (WB)
Related Product Information for KCNIP2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-KCNIP2 antibody made Target Description: KCNIP2 encodes a member of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belongs to the recoverin branch of the EF-hand superfamily. Members of the KCNIP family are small calcium binding proteins. They all have EF-hand-like domains, and differ from each other in the N-terminus. They are integral subunit components of native Kv4 channel complexes. They may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium. This gene encodes a member of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belongs to the recoverin branch of the EF-hand superfamily. Members of the KCNIP family are small calcium binding proteins. They all have EF-hand-like domains, and differ from each other in the N-terminus. They are integral subunit components of native Kv4 channel complexes. They may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified from this gene.
Other Notes	Small volumes of KCNIP2 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 KCNIP2 purchase	MBS3227594 is a blocking peptide targeting KCNIP2. Also known as KCNIP2 Peptide - N-terminal region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KCNIP2. It may not necessarily be applicable to this product.

NCBI GI #	338817979
NCBI GeneID	30819
NCBI Accession #	NP_055406
UniProt Primary Accession #	Q9NS61
UniProt Related Accession #	Q9NS61

GenBank Nucleotide #	NM_014591
NCBI Official Full Name	Kv channel-interacting protein 2
NCBI Official Synonym Full Names	potassium voltage-gated channel interacting protein 2
NCBI Official Symbol	KCNIP2
NCBI Official Synonym Symbols	KCHIP2
UniProt Protein Name	Kv channel-interacting protein 2
UniProt Synonym Protein Names	A-type potassium channel modulatory protein 2; Cardiac voltage-gated potassium channel modulatory subunit; Potassium channel-interacting protein 2
Protein Family	Kv channel-interacting protein
UniProt Gene Name	KCNIP2
UniProt Synonym Gene Names	KCHIP2; KChIP2
UniProt Entry Name	KCIP2_HUMAN
NCBI Protein Information	Kv channel-interacting protein 2
NCBI Summary for KCNIP2	This gene encodes a member of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belongs to the recoverin branch of the EF-hand superfamily. Members of the KCNIP family are small calcium binding proteins. They all have EF-hand-like domains, and differ from each other in the N-terminus. They are integral subunit components of native Kv4 channel complexes. They may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified from this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for KCNIP2	KCNIP2: Regulatory subunit of Kv4/D (Shal)-type voltage-gated rapidly inactivating A-type potassium channels. Probably modulates channels density, inactivation kinetics and rate of recovery from inactivation in a calcium-dependent and isoform-specific manner. In vitro, modulates KCND2/Kv4.2 and KCND3/Kv4.3 currents. Involved in KCND2 and KCND3 trafficking to the cell surface. Belongs to the recoverin family. 9 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 10q24 Cellular Component: voltage-gated potassium channel complex; cytoplasm Molecular Function: identical protein binding; protein binding; potassium channel regulator activity; protein N-terminus binding; calcium ion binding; ER retention sequence binding; A-type (transient outward) potassium channel activity Biological Process: synaptic transmission; muscle contraction; clustering of voltage-gated potassium channels; detection of calcium ion; signal transduction; regulation of heart contraction; potassium ion transport
Research Articles on KCNIP2	**1.** Binding of Ca(2+) to KChIP2 EF-hands can acutely modulate Kv4.3/KChIP2 channel inactivation gating.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/kcnip2/3227594