CHRM3 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	CHRM3, Blocking Peptide
Full Product Name	CHRM3 Peptide - C-terminal region
Product Gene Name	CHRM3 blocking peptide
Product Synonym Gene Name	HM3; PBS; EGBRS; CHRM3
Sequence	Synthetic peptide located within the following region: GYWLCYINST VNPVCYALCN KTFRTTFKML LLCQCDKKKR RKQQYQQRQS
Species Reactivity	Human
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	CHRM3 peptide (MBS3245022) is used for blocking the activity of CHRM3 antibody (MBS3220199)
Molecular Weight	64kDa
OMIM	100100
Product Categories/Family for CHRM3 blocking peptide	Peptide
Related Product Information for CHRM3 blocking peptide	The muscarinic cholinergic receptors belong to a larger family of G protein-coupled receptors. The functional diversity of these receptors is defined by the binding of acetylcholine and includes cellular responses such as adenylate cyclase inhibition, phosphoinositide degeneration, and potassium channel mediation. Muscarinic receptors influence many effects of acetylcholine in the central and peripheral nervous system. The muscarinic cholinergic receptor 3 controls smooth muscle contraction and its stimulation causes secretion of glandular tissue. Alternative promoter use and alternative splicing results in multiple transcript variants that have different tissue specificities.
Other Notes	Small volumes of CHRM3 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 CHRM3 purchase	MBS3245022 is a blocking peptide targeting CHRM3. Also known as CHRM3 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHRM3. It may not necessarily be applicable to this product.

NCBI GI #	578802131
NCBI GeneID	1131
NCBI Accession #	XP_006711795
UniProt Primary Accession #	P20309
UniProt Related Accession #	P20309
GenBank Nucleotide #	XM_006711732.1
NCBI Official Synonym Full Names	cholinergic receptor muscarinic 3

NCBI Official Symbol	CHRM3
NCBI Official Synonym Symbols	HM3; PBS; EGBRS
UniProt Protein Name	Muscarinic acetylcholine receptor M3
Protein Family	Muscarinic acetylcholine receptor
UniProt Gene Name	CHRM3
UniProt Entry Name	ACM3_HUMAN
NCBI Protein Information	muscarinic acetylcholine receptor M3
UniProt Comments for CHRM3	mAChR M3: The muscarinic acetylcholine receptor mediates various cellular responses, including inhibition of adenylate cyclase, breakdown of phosphoinositides and modulation of potassium channels through the action of G proteins. Primary transducing effect is Pi turnover. Defects in CHRM3 are the cause of Eagle-Barrett syndrome (EGBRS). EGBRS is a syndrome characterized by thin abdominal musculature with overlying lax skin, cryptorchism, megacystis with disorganized detrusor muscle, and urinary tract abnormalities. Belongs to the G-protein coupled receptor 1 family. Muscarinic acetylcholine receptor subfamily. CHRM3 sub-subfamily. Protein type: GPCR, family 1; Receptor, GPCR; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 1q43 Cellular Component: asymmetric synapse; postsynaptic membrane; integral to plasma membrane; basolateral plasma membrane; dendrite; plasma membrane; nerve terminal; cell junction Molecular Function: protein binding; receptor activity; drug binding; acetylcholine binding; phosphoinositide phospholipase C activity; G-protein coupled acetylcholine receptor activity Biological Process: nervous system development; cell proliferation; G-protein coupled receptor protein signaling pathway; smooth muscle contraction; acetylcholine receptor signaling, muscarinic pathway; regulation of vascular smooth muscle contraction; energy reserve metabolic process; protein modification process; positive regulation of smooth muscle contraction; signal transduction; regulation of insulin secretion; saliva secretion Disease: Abdominal Muscles, Absence Of, With Urinary Tract Abnormality And Cryptorchidism
Research Articles on CHRM3	**1.** The CHRM3 polymorphism and the Apfel score independently predict PONV susceptibility. Dexamethasone/acustimulation should be considered in patients with low Apfel score but at high genetic risk
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