MC4R Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	MC4R, Blocking Peptide
Full Product Name	MC4R Peptide - N-terminal region
Product Gene Name	MC4R blocking peptide
Product Synonym Gene Name	MGC126851; MGC138197
Sequence	VNSTHRGMHT SLHLWNRSSY RLHSNASESL GKGYSDGGCY EQLFVSPEVF
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	MC4R peptide (MBS3240840) is used for blocking the activity of MC4R antibody (MBS3215938)
Molecular Weight	37kDa
OMIM	155541
Product Categories/Family for MC4R blocking peptide	Peptide
Applications Tested/Suitable for MC4R blocking peptide	Western Blot (WB)
Related Product Information for MC4R blocking peptide	This is a synthetic peptide designed for use in combination with anti-MC4R Antibody, made Target Description: The protein encoded by this gene is a membrane-bound receptor and member of the melanocortin receptor family. The encoded protein interacts with adrenocorticotropic and MSH hormones and is mediated by G proteins. This is an intronless gene. Defects in this gene are a cause of autosomal dominant obesity.
Other Notes	Small volumes of MC4R 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 MC4R purchase	MBS3240840 is a blocking peptide targeting MC4R. Also known as MC4R Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MC4R. It may not necessarily be applicable to this product.

NCBI GI #	119508433
NCBI GeneID	4160
NCBI Accession #	NP_005903
UniProt Primary Accession #	P32245
UniProt Related Accession #	P32245
GenBank Nucleotide #	NM_005912
NCBI Official Full Name	melanocortin receptor 4

NCBI Official Synonym Full Names	melanocortin 4 receptor
NCBI Official Symbol	MC4R
UniProt Protein Name	Melanocortin receptor 4
Protein Family	Melanocortin receptor
UniProt Gene Name	MC4R
UniProt Synonym Gene Names	MC4-R
UniProt Entry Name	MC4R_HUMAN
NCBI Protein Information	melanocortin receptor 4
NCBI Summary for MC4R	The protein encoded by this gene is a membrane-bound receptor and member of the melanocortin receptor family. The encoded protein interacts with adrenocorticotropic and MSH hormones and is mediated by G proteins. This is an intronless gene. Defects in this gene are a cause of autosomal dominant obesity. [provided by RefSeq, Jan 2010]
UniProt Comments for MC4R	MC4R: receptor specific to the heptapeptide core common to adrenocorticotropic hormone and alpha-, beta-, and gamma-MSH. A G-protein coupled receptor that stimulates adenylate cyclase. Defects are a cause of autosomal dominant obesity Protein type: GPCR, family 1; Receptor, GPCR; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 18q22 Cellular Component: integral to membrane; plasma membrane; nucleus Molecular Function: neuropeptide binding; protein binding; melanocortin receptor activity; peptide hormone binding; ubiquitin protein ligase binding; melanocyte stimulating hormone receptor activity Biological Process: G-protein signaling, coupled to cAMP nucleotide second messenger; diet induced thermogenesis; insulin secretion; positive regulation of cAMP biosynthetic process; energy reserve metabolic process; positive regulation of bone resorption; feeding behavior; response to insulin stimulus Disease: Obesity
Research Articles on MC4R	**1.** Determined the potential of AgRP to regulate the activation of intracellular kinases, including extracellular signal-regulated kinase 1 and 2 (ERK1/2), AKT and AMP-activated protein kinase (AMPK), through neural MC3R and MC4R.
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