CRFR2 Antibody (D35) Blocking Peptide

PRODUCT OVERVIEW

Product Name	CRFR2 (D35) (CRHR2), Blocking Peptide
Full Product Name	CRFR2 Antibody (D35) Blocking peptide
Product Gene Name	CRHR2 blocking peptide
Product Synonym Gene Name	CRF2R; CRH2R
Product Synonym Names	Corticotropin-releasing factor receptor 2; CRF-R-2; CRF-R2; CRFR-2; Corticotropin-releasing hormone receptor 2; CRH-R-2; CRH-R2; CRHR2; CRF2R; CRH2R
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 1 mg/ml.
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	CRFR2 (D35) peptide (MBS9218389) is used for blocking the activity of CRFR2 antibody (MBS9207506)
Molecular Weight	47,560 Da
OMIM	602034
Cellular Location	Cell membrane; Multi-pass membrane protein
Related Product Information for CRHR2 blocking peptide	G-protein coupled receptor for CRH (corticotropin- releasing factor), UCN (urocortin), UCN2 and UCN3. Has high affinity for UCN. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and down-stream effectors, such as adenylate cyclase. Promotes the activation of adenylate cyclase, leading to increased intracellular cAMP levels.
Other Notes	Small volumes of CRHR2 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 CRHR2 purchase	MBS9218389 is a blocking peptide targeting CRHR2. Also known as CRFR2 Antibody (D35) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CRHR2. It may not necessarily be applicable to this product.

NCBI GI #	6226847
NCBI GeneID	1395
NCBI Accession #	Q13324.2
UniProt Primary Accession #	Q13324
UniProt Secondary Accession #	O43461; Q4QRJ4; Q99431; B2R967; B3SXS6; B3SXS7; B3SXS8; B3SXT0; F8WA81
UniProt Related Accession #	Q13324
NCBI Official Full Name	Corticotropin-releasing factor receptor 2
NCBI Official Synonym Full Names	corticotropin releasing hormone receptor 2
NCBI Official Symbol	CRHR2
NCBI Official Synonym Symbols	CRF2; CRFR2; CRF-RB; HM-CRF
UniProt Protein Name	Corticotropin-releasing factor receptor 2

UniProt Synonym Protein Names	Corticotropin-releasing hormone receptor 2; CRH-R-2; CRH-R2
Protein Family	Corticotropin-releasing factor receptor
UniProt Gene Name	CRHR2
UniProt Synonym Gene Names	CRF2R; CRH2R; CRF-R-2; CRF-R2; CRFR-2; CRH-R-2; CRH-R2
UniProt Entry Name	CRFR2_HUMAN
NCBI Protein Information	corticotropin-releasing factor receptor 2
NCBI Summary for CRHR2	The protein encoded by this gene belongs to the G-protein coupled receptor 2 family, and the subfamily of corticotropin releasing hormone receptor. This receptor shows high affinity for corticotropin releasing hormone (CRH), and also binds CRH-related peptides such as urocortin. CRH is synthesized in the hypothalamus, and plays an important role in coordinating the endocrine, autonomic, and behavioral responses to stress and immune challenge. Studies in mice suggest that this receptor maybe involved in mediating cardiovascular homeostasis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.[provided by RefSeq, Jan 2011]
UniProt Comments for CRHR2	CRHR2: This is a receptor for corticotropin releasing factor. Shows high-affinity CRF binding. Also binds to urocortin I, II and III. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase. Belongs to the G-protein coupled receptor 2 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, GPCR; Membrane protein, integral; Membrane protein, multi-pass; GPCR, family 2 Chromosomal Location of Human Ortholog: 7p14.3 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: corticotrophin-releasing factor receptor activity; protein binding Biological Process: G-protein signaling, coupled to cAMP nucleotide second messenger
Research Articles on CRHR2	**1.** found associations between CRHR2 genotypes and haplotypes and negative emotion in IBS patients and controls
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