Dopamine D5 Receptor Antibody Antigenic Blocking Peptide

PRODUCT OVERVIEW

Product Name	Dopamine D5 Receptor (DRD5), Blocking Peptide
Full Product Name	Dopamine D5 Receptor Antibody Antigenic Blocking Peptide
Product Gene Name	DRD5 blocking peptide
Product Synonym Names	D(1B) dopamine receptor; D1B dopamine receptor; DBDR; DRD 1B; DRD 5; DRD1L2 antibody
Form/Format	Antigenic Blocking Peptide
Concentration	Quantity: 250 ug; Volume: 100 ul (lot specific)
Preparation and Storage	-20• degree C for long term storage
Antibody/Peptide Pairs	Dopamine D5 Receptor peptide (MBS543550) is used for blocking the activity of Dopamine D5 Receptor antibody (MBS541398)
Antibody/Peptide Pairs	Dopamine D5 Receptor peptide (MBS543550) is used for blocking the activity of Dopamine D5 Receptor antibody (MBS541399)
Molecular Weight	52,951 Da
OMIM	126453
Immunogen	Synthetic Peptide
Molecular Function	Dopamine binding; Biological rhythms
Structure	Belongs to G-protein coupled receptor 1 family; Transmembrane helix
Subcellular Location	Cell membrane; Multi-pass membrane
Applications Tested/Suitable for DRD5 blocking peptide	Immunodepletion, Immunocompetition
Application Notes for DRD5 blocking peptide	Western Blot: 1:1,000-1:1,5000
Related Product Information for DRD5 blocking peptide	Antigenic Blocking Peptide Dopamine D5 Receptor Antibody Dopamine receptor mediated by G proteins which inhibit adenylyl cyclase. Modulates circadian rhtym of contrast sensitivity by regulating the rhythmic expression of NPAS2 in the retinal ganglion cells.
Other Notes	Small volumes of DRD5 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 DRD5 purchase	MBS543550 is a blocking peptide targeting DRD5. Also known as Dopamine D5 Receptor Antibody Antigenic Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DRD5. It may not necessarily be applicable to this product.

NCBI GI #	118214
NCBI GeneID	1816
NCBI Accession #	P21918.2
UniProt Primary Accession #	P21918

UniProt Secondary Accession #	Q8NEQ8; B2R9S3
UniProt Related Accession #	P21918
NCBI Official Full Name	D(1B) dopamine receptor
NCBI Official Synonym Full Names	dopamine receptor D5
NCBI Official Symbol	DRD5
NCBI Official Synonym Symbols	DBDR; DRD1B; DRD1L2
UniProt Protein Name	D(1B) dopamine receptor
UniProt Synonym Protein Names	D(5) dopamine receptor; D1beta dopamine receptor; Dopamine D5 receptor
Protein Family	D(1B) dopamine receptor
UniProt Gene Name	DRD5
UniProt Synonym Gene Names	DRD1B; DRD1L2
UniProt Entry Name	DRD5_HUMAN
NCBI Protein Information	D(1B) dopamine receptor
NCBI Summary for DRD5	This gene encodes the D5 subtype of the dopamine receptor. The D5 subtype is a G-protein coupled receptor which stimulates adenylyl cyclase. This receptor is expressed in neurons in the limbic regions of the brain. It has a 10-fold higher affinity for dopamine than the D1 subtype. Pseudogenes related to this gene reside on chromosomes 1 and 2. [provided by RefSeq, Jul 2008]
UniProt Comments for DRD5	DRD5: Dopamine receptor whose activity is mediated by G proteins which activate adenylyl cyclase. Defects in DRD5 are a cause of benign essential blepharospasm (BEB). BEB is a primary focal dystonia affecting the orbicularis oculi muscles. Dystonia is defined by the presence of sustained involuntary muscle contraction, often leading to abnormal postures. BEB usually begins in middle age. Initial symptoms include eye irritation and frequent blinking, progressing to involuntary spasms of eyelid closure. Patients have normal eyes. The visual disturbance is due solely to the forced closure of the eyelids. In severe cases, this can lead to functional blindness. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; GPCR, family 1; Membrane protein, integral; Receptor, GPCR Chromosomal Location of Human Ortholog: 4p16.1 Cellular Component: brush border membrane; integral to plasma membrane; nonmotile primary cilium; plasma membrane Molecular Function: dopamine binding; dopamine D1 receptor-like receptor activity; dopamine receptor activity Biological Process: adenylate cyclase activation; associative learning; cellular calcium ion homeostasis; dopamine receptor, adenylate cyclase activating pathway; dopamine receptor, phospholipase C activating pathway; G-protein signaling, adenylate cyclase activating pathway; learning; negative regulation of blood pressure; negative regulation of NAD(P)H oxidase activity; norepinephrine-epinephrine vasoconstriction involved in regulation of systemic arterial blood pressure; positive regulation of adenylate cyclase activity; regulation of female receptivity; regulation of systemic arterial blood pressure by vasopressin; response to amphetamine; response to cocaine; sensitization; synaptic transmission; synaptic transmission, dopaminergic; transmission of nerve impulse; wound healing Disease: Attention Deficit-hyperactivity Disorder; Blepharospasm, Benign Essential
Research Articles on DRD5	**1.** Conserved residues in intracellular loop 1 and transmembrane region 2 of DRD1 and DRD5 are essential in ligand binding and signal transduction.
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