DRD5 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	DRD5, Blocking Peptide
Full Product Name	DRD5 Blocking Peptide
Product Gene Name	DRD5 blocking peptide
Product Synonym Names	D(1B) dopamine receptor; D(5) dopamine receptor; D1 beta dopamine receptor; D1B dopamine receptor; D1beta dopamine receptor; D5 dopamine receptor; DBDR; Dopamine D5 receptor; Dopamine receptor D1B; dopamine receptor D5; DRD 1B; DRD 5; DRD1B; DRD1L2; DRD5; DRD5_HUMAN; MGC10601
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 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
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	DRD5 peptide (MBS9626579) is used for blocking the activity of DRD5 antibody (MBS9607867)
Molecular Weight	52,951 Da
OMIM	126453
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for DRD5 blocking peptide	Blocking/Control
Related Product Information for DRD5 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
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	MBS9626579 is a blocking peptide targeting DRD5.

ADDITIONAL DETAILS

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

NCBI GI #	4503391
NCBI GeneID	1816
NCBI Accession #	NP_000789.1
UniProt Primary Accession #	P21918
UniProt Secondary Accession #	Q8NEQ8; B2R9S3

UniProt Related Accession #	P21918
GenBank Nucleotide #	NM_000798.4
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; D(1B) dopamine receptor; dopamine D5 receptor; dopamine receptor D1B; d(5) dopamine receptor; D1beta 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: GPCR, family 1; Membrane protein, multi-pass; Membrane protein, integral; Receptor, GPCR Chromosomal Location of Human Ortholog: 4p16.1 Cellular Component: brush border membrane; integral to plasma membrane; plasma membrane Molecular Function: dopamine receptor activity; dopamine binding; dopamine D1 receptor-like receptor activity Biological Process: synaptic transmission, dopaminergic; wound healing; adenylate cyclase activation; response to amphetamine; transmission of nerve impulse; norepinephrine-epinephrine vasoconstriction involved in regulation of systemic arterial blood pressure; response to cocaine; G-protein signaling, adenylate cyclase activating pathway; cellular calcium ion homeostasis; synaptic transmission; regulation of female receptivity; regulation of systemic arterial blood pressure by vasopressin; sensitization; negative regulation of blood pressure; dopamine receptor, phospholipase C activating pathway; positive regulation of adenylate cyclase activity; negative regulation of NAD(P)H oxidase activity; associative learning; dopamine receptor, adenylate cyclase activating pathway Disease: Attention Deficit-hyperactivity Disorder; Blepharospasm, Benign Essential
Research Articles on DRD5	**1.** Its signaling regulates human osteoclastogenesis. (review)
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