DRD5 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	DRD5, Recombinant Protein
Full Product Name	Recombinant Human DRD5
Product Gene Name	DRD5 recombinant protein
Product Synonym Names	D(1B) dopamine receptor; D(5) dopamine receptor; D1beta dopamine receptor; DBDR; Dopamine D5 receptor; dopamine receptor D5; DRD1B; DRD1L2; DRD5
Host	E Coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose, pH7.4
Purity/Purification	Greater than 85% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	52,951 Da
Sequence Positions	361-477
OMIM	126453
3D Structure	ModBase 3D Structure for P21918
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 200ug/ml in sterile distilled water
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for DRD5 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for DRD5 recombinant protein	MBS7613391 is a recombinant protein targeting DRD5. Also known as Recombinant Human DRD5. Host: E Coli.
Other Notes	Small volumes of DRD5 recombinant protein 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.

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)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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