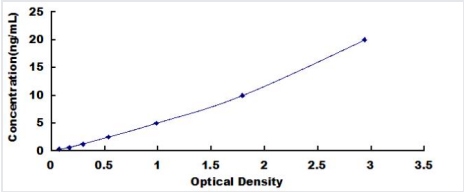
Dopamine Receptor D2 (DRD2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Dopamine Receptor D2 (DRD2), ELISA Kit
Full Product Name	Human Dopamine Receptor D2 (DRD2) ELISA Kit
Product Gene Name	DRD2 elisa kit
Product Synonym Names	DR-D2; D2DR; D2R
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue Homogenates, Cell Lysates or Other Biological Fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.129ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	50,847 Da
OMIM	103780
3D Structure	ModBase 3D Structure for P14416
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for DRD2 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to DRD2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to DRD2. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain DRD2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of DRD2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of DRD2 elisa kit 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 DRD2 purchase	MBS458925 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Dopamine Receptor D2 (DRD2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing DRD2. The ELISA analytical biochemical technique of the MBS458925 kit is based on DRD2 antibody-DRD2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DRD2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DRD2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of DRD2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DRD2. It may not necessarily be applicable to this product.

NCBI GI #	4503385
NCBI GeneID	1813
NCBI Accession #	NP_000786.1
UniProt Primary Accession #	P14416
UniProt Secondary Accession #	Q9NZR3; Q9UPA9
UniProt Related Accession #	P14416
GenBank Nucleotide #	NM_000795.3
NCBI Official Full Name	D(2) dopamine receptor isoform long
NCBI Official Synonym Full Names	dopamine receptor D2
NCBI Official Symbol	DRD2
NCBI Official Synonym Symbols	D2R; D2DR
UniProt Protein Name	D(2) dopamine receptor
UniProt Synonym Protein Names	Dopamine D2 receptor
Protein Family	D(2) dopamine receptor
UniProt Gene Name	DRD2
NCBI Protein Information	D(2) dopamine receptor
NCBI Summary for DRD2	This gene encodes the D2 subtype of the dopamine receptor. This G-protein coupled receptor inhibits adenylyl cyclase activity. A missense mutation in this gene causes myoclonus dystonia; other mutations have been associated with schizophrenia. Alternative splicing of this gene results in two transcript variants encoding different isoforms. A third variant has been described, but it has not been determined whether this form is normal or due to aberrant splicing. [provided by RefSeq, Jul 2008]
UniProt Comments for DRD2	Dopamine receptor whose activity is mediated by G proteins which inhibit adenylyl cyclase.
Research Articles on DRD2	**1.** ONC201 is a selective DRD2 antagonist that is well tolerated, achieves micromolar plasma concentrations, and is biologically active in advanced cancer patients when orally administered at 625 mg every 3 weeks
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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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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