

Rat Dopamine D2 receptor ELISA Kit | D2R elisa kit

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CATALOG #
AAA86648

REACTIVITY
Rat

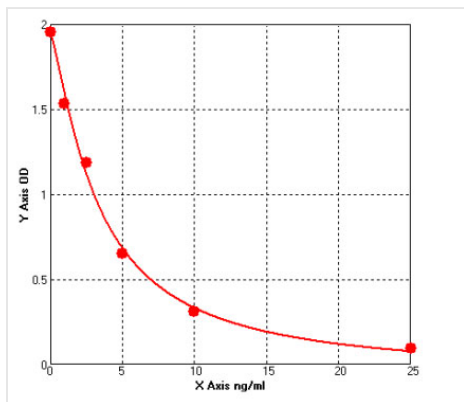
PRODUCT SYNONYMS

Dopamine D2 receptor; Rat Dopamine D2 receptor ELISA Kit; Dopamine D2 receptor (Rat); D2R elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of DRD2. No significant cross-reactivity or interference between DRD2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between DRD2 and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for D2R elisa kit	Principle of the Assay: DRD2 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-DRD2 antibody and an DRD2-HRP conjugate. The assay sample and buffer are incubated together with DRD2-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the DRD2 concentration since DRD2 from samples and DRD2-HRP conjugate compete for the anti-DRD2 antibody binding site. Since the number of sites is limited, as more sites are occupied by DRD2 from the sample, fewer sites are left to bind DRD2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The DRD2 concentration in each sample is interpolated from this standard curve. Intended Uses: This DRD2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat DRD2. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for D2R elisa kit	Rat ELISA Kit

NCBI AND UNIPROT INFORMATION

NCBI GI #	17986270
NCBI GeneID	1813
NCBI Accession #	NP_057658.2
NCBI GenBank Nucleotide #	NM_016574.3
UniProt Accession #	P14416; Q9NZR3; Q9UPA9
Molecular Weight	50,619 Da
NCBI Official Full Name	D(2) dopamine receptor isoform short
NCBI Official Synonym Full Names	dopamine receptor D2
NCBI Official Symbol	DRD2
NCBI Official Synonym Symbols	D2R; D2DR
NCBI Protein Information	D(2) dopamine receptor; D(2) dopamine receptor; dopamine D2 receptor; dopamine receptor D2 isoform; seven transmembrane helix receptor
UniProt Protein Name	D(2) dopamine receptor
UniProt Gene Name	DRD2
UniProt Entry Name	DRD2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.