

Human Dopamine Receptor D2 ELISA Kit | D2R/DRD2 elisa kit

Human Dopamine Receptor D2 ELISA Kit

CATALOG #
AAA17359

REACTIVITY
Human

PRODUCT SYNONYMS

Dopamine Receptor D2; Human Dopamine Receptor D2 ELISA Kit; D2R/DRD2 (Dopamine Receptor D2); D2R/DRD2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of D2D. No significant cross-reactivity or interference between D2D and analogues was observed.
Sequence Length	443
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level D2D were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level D2D were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a D2R/DRD2 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	ng/ml	0	0.312	0.625	1.25	2.5	5	10	20
Y	OD450	0.099	0.181	0.256	0.457	0.697	1.047	1.716	2.145

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for D2R/DRD2 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-D2D antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-D2D antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the D2D amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of D2D can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5921480
NCBI GeneID	1813
UniProt Accession #	P14416; Q9NZR3; Q9UPA9
Molecular Weight	50,847 Da
NCBI Official Full Name	dopamine receptor D2
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
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/d2r-drd2-human-elisa-kits/dopamine-receptor-d2/17359>