

Human Dopamine Transporter (DAT) ELISA Kit | DAT elisa kit

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CATALOG #
AAA136079

REACTIVITY
Human

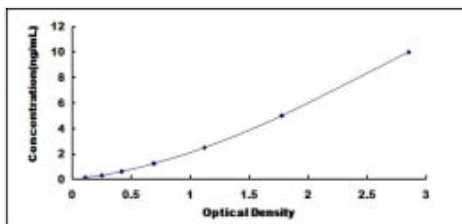
PRODUCT SYNONYMS

Dopamine Transporter (DAT); Human Dopamine Transporter (DAT) ELISA Kit; SLC6A3; DAT1; Sodium-dependent dopamine transporter; Dopamine Active Transporter; SLC6-A3; Solute Carrier Family 6(neurotransmitter Transporter; Dopamine); Member 3; DAT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Dopamine Transporter (DAT). No significant cross-reactivity or interference between Dopamine Transporter (DAT) and analogues was observed.
Sequence Length	620
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.056ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Dopamine Transporter (DAT) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Dopamine Transporter (DAT) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for DAT elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Dopamine Transporter (DAT). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Dopamine Transporter (DAT). 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 Dopamine Transporter (DAT), 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 Dopamine Transporter (DAT) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for DAT elisa kit	Signal transduction; Neuroscience

NCBI AND UNIPROT INFORMATION

NCBI GI #	7108463
NCBI GeneID	6531
UniProt Accession #	Q01959; Q14996; A2RUN4
Molecular Weight	68,495 Da
NCBI Official Full Name	dopamine transporter
NCBI Official Synonym Full Names	solute carrier family 6 (neurotransmitter transporter), member 3
NCBI Official Symbol	SLC6A3
NCBI Official Synonym Symbols	DAT; DAT1; PKDYS
NCBI Protein Information	sodium-dependent dopamine transporter
UniProt Protein Name	Sodium-dependent dopamine transporter
UniProt Gene Name	SLC6A3
UniProt Synonym Gene Names	DAT1; DA transporter; DAT
UniProt Entry Name	SC6A3_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.