

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

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CATALOG #
AAA184889

REACTIVITY
Mouse

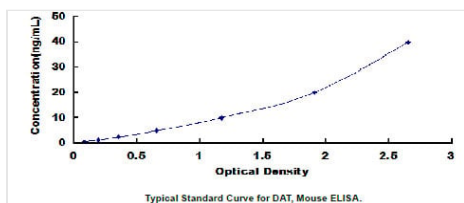
PRODUCT SYNONYMS

Dopamine Transporter (DAT); Mouse 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	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of DAT. No significant cross-reactivity or interference between DAT and analogues was observed.
Sequence Length	620
Assay Type	Quantitative Sandwich
Samples	Mouse tissue homogenates, cell lysates and other biological fluids
Detection Range	0.625-40ng/mL
Sensitivity	< 0.225ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DAT were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level DAT were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. 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	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to DAT. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to 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 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 DAT in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of DAT in mouse tissue homogenates, cell lysates and other biological fluids.
References	High-Fat Diet-Induced Weight Gain, Behavioral Deficits, and Dopamine Changes in Young C57BL/6J Mice; Front Nutr; 2021 Jan 20;7:591161.; PMID: 33553228; Jian Han; Department of Biology, College of Science and Technology, North Carolina Agricultural and Technical State University, Greensboro, NC, United States.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7108463
NCBI GeneID	6531
Molecular Weight	68,495 Da
NCBI Official Full Name	dopamine transporter
NCBI Official Synonym Full Names	solute carrier family 6 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

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.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/dopamine-transporter-dat/184889>