

General Dopamine (DA) ELISA Kit | DA elisa kit

General Dopamine (DA) Mini Samples ELISA Kit

CATALOG #
AAA190126

REACTIVITY
General

PRODUCT SYNONYMS

Dopamine (DA); General Dopamine (DA) Mini Samples ELISA Kit; DA Mini-sample ELISA kit (General species); Dopamine; 2-(3; 4-Dihydroxyphenyl)ethylamine; 3; 4-Dihydroxyphenethylamine; 3-Hydroxytyramine; Intropin; Revivan; Oxytyramine; Dopamine Hydrochloride; DA elisa kit

PRODUCT SPECIFICATIONS

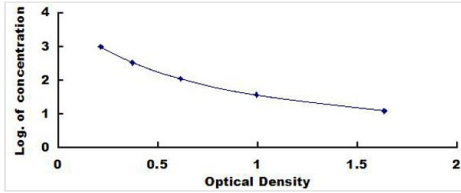
Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of Mini Samples Dopamine (DA). No significant cross-reactivity or interference between Mini Samples Dopamine (DA) and analogues was observed. Reactive with General species DA/Dopamine
Assay Type	Competitive Inhibition
Samples	Serum, Plasma and other biological fluids
Detection Range	12.35-1,000pg/mL
Sensitivity	4.73pg/mL
Sample Size	15-25uL
Detection Method	Colormetric
Featured Series	ME kit
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Mini Samples Dopamine (DA) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Mini Samples Dopamine (DA) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Function	Detects protein (micro-volume samples 15-25 ul)
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 25ul standard or sample to each well. And then add 25uL prepared Detection Reagent A immediately. Shake and mix. Incubate 1 hour at 37 degree C 3. Aspirate and wash 3 times 4. Add 50ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 5. Aspirate and wash 5 times 6. Add 50ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 7. Add 25ul Stop Solution. Read at 450 nm immediately.
Test Principle	This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Mini Samples Dopamine (DA) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Mini Samples Dopamine (DA) and unlabeled Mini Samples Dopamine (DA) (Standards or samples) with the pre-coated antibody specific to Mini Samples Dopamine (DA). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Mini Samples Dopamine (DA) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Mini Samples Dopamine (DA) in the sample.
Research Area	Signal transduction, Cardiovascular biology, Reproductive science, Neuro science

Preparation and Storage

Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life)

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)

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/general-elisa-kits/dopamine-da/190126>