

Melatonin (MT) ELISA Kit | MT elisa kit

General species Melatonin (MT)(Competitive ELISA) High-sensitive ELISA Kit

CATALOG #
AAA152527

REACTIVITY
General species

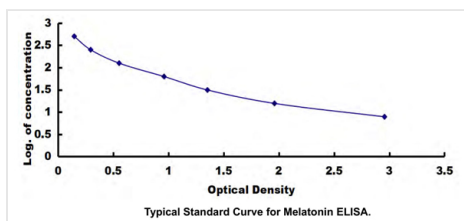
PRODUCT SYNONYMS

Melatonin (MT); General species Melatonin (MT)(Competitive ELISA) High-sensitive ELISA Kit; High Sensitive ELISA Kit for Melatonin (MT); N-Acetyl-5-Methoxytryptamine; MT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General species
Specificity	This assay has high sensitivity and excellent specificity for detection of melatonin. No significant cross-reactivity or interference between melatonin and analogues was observed.
Assay Type	Quantitative Competitive
Samples	Serum, plasma and other biological fluids
Detection Range	7.8-500pg/mL
Sensitivity	< 2.8pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level melatonin 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 melatonin were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf-life: one year 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 MT elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to melatonin has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled melatonin and unlabeled melatonin (Standards or samples) with the pre-coated antibody specific to melatonin. 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 melatonin in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of melatonin in the sample. Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of melatonin in serum, plasma and other biological fluids.
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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/melatonin-mt/152527>