

Human Melatonin ELISA Kit

Melatonin (Serum/Plasma) ELISA Kit

CATALOG #
AAA72579

REACTIVITY
Human

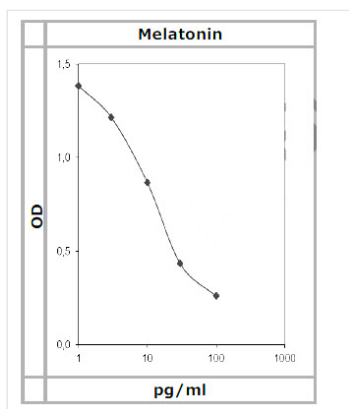
PRODUCT SYNONYMS

Melatonin; Melatonin (Serum/Plasma) ELISA Kit; Melatonin elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The usual precautions for venipuncture should be observed. It is important to preserve the chemical integrity of a blood specimen from the moment it is collected until it is assayed. Do not use grossly hemolytic, icteric or grossly lipemic specimens. Samples appearing turbid should be centrifuged before testing to remove any particulate material.
Assay Type	Competitive
Samples	Human serum and plasma
Sample Volume	500 uL / extraction
Standards	6 standards, ready to use
Configuration	96 Determinations, 8x12 removable strips
Controls	2 controls, ready to use
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Melatonin elisa kit	Background: The pineal gland (corpus pineale) has been called a neuroendocrine transducer because of its important role in photoperiodism. The major hormone of the pineal gland is N-acetyl-5-methoxy-tryptamine or melatonin which is synthesized from the amino acid tryptophane. Melatonin has its highest levels in plasma during nighttime. Its characteristic nocturnal surge appears to encode temporal information such as length of night. Regulation of the melatonin secretion is under neural control. Most of the circulating melatonin is metabolized in the liver to 6-hydroxymelatonin and subsequently to 6- sulfatoxymelatonin which is excreted into the urine. The concentration of 6-hydroxymelatonin sulfate in urine correlates well with the total level of melatonin in the blood during the collection period. Principle of the Assay: The assay procedure follows the basic principle of competitive ELISA whereby there is competition between a biotinylated and a non-biotinylated antigen for a fixed number of antibody binding sites. The amount of biotinylated antigen bound to the antibody is inversely proportional to the analyte concentration of the sample. When the system is in equilibrium, the free biotinylated antigen is removed by a washing step and the antibody bound biotinylated antigen is determined by use of streptavidine alkaline phosphatase as marker and p-nitrophenyl phosphate as substrate. Quantification of unknowns is achieved by comparing the enzymatic activity of unknowns with a response curve prepared by using known standards. Intended Uses: Enzyme immunoassay for the determination of melatonin in human serum and plasma.
--	--

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/human-elisa-kits/melatonin/72579>