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Datasheet for ABIN6963625 Melatonin ELISA Kit

1 Image

1 Publication



Overview

Quantity:	96 tests
Target:	Melatonin (MT)
Reactivity:	Mouse
Method Type:	Competition ELISA
Detection Range:	7.81 pg/mL - 500 pg/mL
Minimum Detection Limit:	7.81 pg/mL
Application:	ELISA

Product Details

Purpose:	The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement in various sample types.
Sample Type:	Cell Culture Supernatant, Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This kit recognizes Mouse MT in samples. No Significant cross-reactivity or interference between Mouse MT and analogues was observed.
Sensitivity:	4.69 pg/mL
Components:	 Pre-coated, ready to use 96-well strip plate, flat buttom Plate sealer for 96 wells Reference Standard

• Reference Standard & Sample Diluent

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- Biotinylated Detection Antibody (100 x concentrate)
- HRP Conjugate (100 x concentrate)
- Biotinylated Detection Antibody Diluent
- HRP Conjugate Diluent
- Substrate Reagent
- Stop Solution
- Wash Buffer (25 x concentrate)
- Instruction manual

Target Details

Target:	Melatonin (MT)
Alternative Name:	Melatonin (MT Products)
Target Type:	Chemical
Background:	N-Acetyl-5-Methoxytryptamine

Application Details

Sample Volume:	50 μL
Assay Time:	2 h
Plate:	Pre-coated
Protocol:	 Add 50 μL standard or sample to each well. Immediately add 50 μL Biotinylated Detection Antibody to each well. Incubate for 45 min at 37 °C. Aspirate and wash 3 times.
	 Add 100 μL HRP Conjugate to each well. Incubate for 30 min at 37 °C. Aspirate and wash 5 times.
	5. Add 90 µL Substrate Reagent. Incubate 15 min at 37 °C.
	6. Add 50 μ L Stop Solution. Read at 450 nm immediately.
	7. Calculation of results.
Reagent Preparation:	1. Bring all reagents to room temperature (18~25 °C) before use. Follow the Microplate reader manual for set-up and preheat it for 15 min before OD measurement.
	2. Wash Buffer: Dilute 30 mL of Concentrated Wash Buffer with 720 mL of deionized or distilled water to prepare 750 mL of Wash Buffer. Note: if crystals have formed in the concentrate, warm it in a 40 °C water bath and mix it gently until the crystals have completely dissolved.
	 Standard working solution: Centrifuge the standard at 10,000xg for 1 min. Add 1.0 mL of Reference Standard &Sample Diluent, let it stand for 10 min and invert it gently several times
	After it dissolves fully, mix it thoroughly with a pipette. This reconstitution produces a working solution of 500 pg/mL. Then make serial dilutions as needed. The recommended

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	 dilution gradient is as follows: 500, 250, 125, 62.5, 31.25, 15.63, 7.81, 0 pg/mL. Dilution method: Take 7 EP tubes, add 500 µLof Reference Standard & Sample Diluent to each tube. Pipette 500 µLof the 500 pg/mL stock solution to the first tube and mix up to produce a 250 pg/mL working solution. Pipette 500 µLof the solution from the former tube into the latter one according to these steps. The illustration below is for reference. Note: the last tube is regarded as a blank. Don't pipette solution into it from the former tube. 4. Biotinylated Detection Antibody working solution: Calculate the required amount before the experiment (50 µL/well). In preparation, slightly more than calculated should be prepared. Centrifuge the stock tube before use, dilute the 100x Concentrated Biotinylated Detection Antibody to 1xworking solution: Calculate the required amount before the experiment (100 µL/well). In preparation, slightly more than calculated should be prepared. Diluent. 5. Concentrated HRP Conjugate working solution: Calculate the required amount before the experiment (100 µL/well). In preparation, slightly more than calculated should be prepared. Dilute the 100x Concentrated HRP Conjugate to 1x working solution with Concentrated HRP Conjugate Diluent.
Sample Preparation:	 It is recommended to use fresh samples without long storage, otherwise protein degradation and denaturationmay occur in these samples, leading to false results. Samples should therefore be stored for a short periodat 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤ 3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen samples should be slowly thawed and centrifuged toremove precipitates. If the sample type is not specified in the instructions, a preliminary test is necessary to
	determinecompatibility with the kit.If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a possibility of causing a deviation due to the introduced chemical substance. The
	 recommended dilution factor is for reference only. Please estimate the concentration of the samples before performing the test. If the values are not in therange of the standard curve, the optimal sample dilution for the particular experiment has to be determined. Samples should then be diluted with PBS (pH =7.0-7.2).
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, mid range and high level Mouse MT were tested 20 times on one plate, respectively.
	Inter-assay Precision (Precision between assays): 3 samples with low, mid range and high level
	Mouse MT were tested on 3 different plates, 20 replicates in each plate.
	Both intra-CV and inter-CV are < 10 %.
Restrictions:	For Research Use only
Handling	
Storage:	4 °C,-20 °C
Storage Comment:	1. For unopened kit: All reagents should be stored according to the labels on the vials, so they are stable up to 6 months after receipt of the kit. The reference standard, biotinylated

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	detection antibody, HRP conjugate, and 96-well strip plate should be stored at -20 $^\circ$ C upon
	receipt, while the other reagents should be stored at 4 °C.
	2. For used kits: When the kit is used, the remaining reagents must be stored according to the
	above storage conditions. In addition, please return the unused wells to the foil pouch
	containing the desiccant and seal the foil pouch with the zipper.
Expiry Date:	6 months
Publications	
Product cited in:	Nour Eldin, El-Readi, Nour Eldein, Alfalki, Althubiti, Mohamed Kamel, Eid, Al-Amodi, Mirza: "8-
	Hydroxy-2'-deoxyguanosine as a Discriminatory Biomarker for Early Detection of Breast Cancer.
	" in: Clinical breast cancer, (2018) (PubMed).



