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Datasheet for ABIN2669915 CGA ELISA Kit

Publication



Overview

| Quantity: | 96 tests |
|--------------------------|-----------------|
| Target: | CGA |
| Reactivity: | Fish |
| Method Type: | Sandwich ELISA |
| Detection Range: | 0.78-50 MioU/mL |
| Minimum Detection Limit: | 0.78 MioU/mL |
| Application: | ELISA |

Product Details

| Cell Culture Supernatant, Plasma, Serum, Tissue Homogenate Quantitative |
|--|
| Quantitative |
| |
| Colorimetric |
| Glycoprotein hormones alpha chain,CGA, |
| Reagent (Quantity): |
| Assay plate (1), |
| • Standard (2), |
| • Sample Diluent (1×20 mL), |
| Assay Diluent A (1×10 mL), |
| Assay Diluent B (1×10 mL), |
| Detection Reagent A (1×120 μL), |
| Detection Reagent B (1×120 μL), |
| Wash Buffer(25 x concentrate) (1×30 mL), |
| |

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| | Substrate (1×10 mL), 2 Stop Solution (1×10 mL), Plate sealer for 96 wells (5), Instruction (1) |
|------------------------|---|
| Material not included: | Microplate reader. Pipettes and pipette tips. EP tube Deionized or distilled water. |
| Target Details | |
| Target: | CGA |
| Alternative Name: | CGA (CGA Products) |

| Metabolism of Steroid Hormones and Vitamin D, Thyroid Hormone Synthesis, Hormone |
|--|
| Transport, Peptide Hormone Metabolism |

Application Details

Pathways:

| Application Notes: | Optimal working dilution should be determined by the investigator. |
|----------------------|---|
| Sample Volume: | 100 µL |
| Plate: | Pre-coated |
| Protocol: | The microtiter plate provided in this kit has been pre-coated with an antibody specific to the target. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for target and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3'5, 5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain the target, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm ± 2 nm. The concentration of target in the samples is then determined by comparing the O.D. of the samples to the standard curve. |
| Reagent Preparation: | Bring all reagents to room temperature before use. Wash Buffer - If crystals have formed in the concentrate, warm to room temperature and mix gently until the crystals have completely dissolved. Dilute 30 mL of Wash Buffer Concentrate into deionized or distilled water to prepare 750 mL of Wash Buffer. Standard - Reconstitute the Standard with 1.0 mL of Sample Diluent. This reconstitution produces a stock solution. Allow the standard to sit for a minimum of 15 minutes with gentle agitation prior to making serial dilutions (Making serial dilution in the wells directly is not permitted). The undiluted standard serves as the high standard. The Sample |

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| | Diluent serves as the zero standard (0 ng/ml). |
|--------------------|--|
| Sample Collection: | Serum - Use a serum separator tube (SST) and allow samples to clot for 30 minutes before |
| | centrifugation for 15 minutes at approximately 1000 $	imes$ g. Remove serum and assay |
| | immediately or aliquot and store samples at -20 °C or -80 °C. |
| | Plasma - Collect plasma using EDTA or heparin as an anticoagulant. Centrifuge samples for 1 |
| | minutes at 1000 × g at 2 °C - 8 °C within 30 minutes of collection. Store samples at -20 °C or -8 |
| | °C. Avoid repeated freeze-thaw cycles. |
| | Tissue homogenates - The preparation of tissue homogenates will vary depending upon tissue |
| | type. For this assay, tissue was rinsed with 1X PBS to remove excess blood, homogenized in 2 |
| | mL of 1X PBS and stored overnight at \leq -20 °C After two freeze-thaw cycles were performed to |
| | break the cell membranes, the homogenates were centrifuged for 5 minutes at 5000 x g. |
| | Remove the supernate and assay immediately or aliquot and store at \leq -20 °C. |
| | Cell culture supernates and Other biological fluids - Remove particulates by centrifugation |
| | and assay immediately or aliquot and store samples at -20 °C or -80 °C. Avoid repeated freeze |
| | thaw cycles. |
| | Note: |
| | 1. Samples to be used within 5 days may be stored at 2-8 °C , otherwise samples must stored |
| | at -20 °C (1 month) or -80 °C (2 months) to avoid loss of bioactivity and contamination. |
| | 2. Tissue or cell extraction samples prepared by chemical lysis buffer may cause unexpected |
| | ELISA results due to the impacts of certain chemicals. |
| | 3. Influenced by the factors including cell viability, cell number and also sampling time, sample |
| | from cell culture supernatant may not be detected by the kit |
| | 4. Sample hemolysis will influence the result, so hemolytic specimen can not be detected. |
| | 5. When performing the assay slowly bring samples to room temperature. |
| Assay Procedure: | Allow all reagents to reach room temperature (Please do not dissolve the reagents at 37 °C |
| loody r roccuire. | directly.). All the reagents should be mixed thoroughly by gently swirling before pipetting. Avoid |
| | foaming. Keep appropriate numbers of strips for 1 experiment and remove extra strips from |
| | microtiter plate. Removed strips should be resealed and stored at 4 °C until the kits expiry date |
| | Prepare all reagents, working standards and samples as directed in the previous sections. |
| | Please predict the concentration before assaying. If values for these are not within the range of |
| | the standard curve, users must determine the optimal sample dilutions for their particular |
| | experiments. |
| | 1. Add 100 µL of Standard, Blank, or Sample per well. Cover with the Plate sealer. Incubate for |
| | hours at 37 °C . |
| | 2. Remove the liquid of each well, don 't wash. |

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4. Aspirate each well and wash, repeating the process three times for a total of three washes. Wash by filling each well with Wash Buffer (approximately 400 μ L) using a squirt bottle, multichannel pipette, manifold dispenser or autowasher. Complete removal of liquid at each step is essential to good performance. After the last wash, remove any remaining Wash Buffer by aspirating or decanting. Invert the plate and blot it against clean paper towels.

5. Add 100 μL of Detection Reagent B working solution to each well. Cover with a new Plate sealer. Incubate for 1 hours at 37 °C .

6. Repeat the aspiration/wash as in step 4.

7. Add 90 μ L of Substrate Solution to each well. Cover with a new Plate sealer. Incubate within 30 minutes at 37 °C . Protect from light.

8. Add 50 μ L of Stop Solution to each well. If color change does not appear uniform, gently tap the plate to ensure thorough mixing.

9. Determine the optical density of each well at once, using a microplate reader set to 450 nm. Important Note:

1. Absorbance is a function of the incubation time. Therefore, prior to starting the assay it is recommended that all reagents should be freshly prepared prior to use and all required stripwells are secured in the microtiter frame. This will ensure equal elapsed time for each pipetting step, without interruption.

2. Please carefully reconstitute Standards or working Detection Reagent A and B according to the instruction, and avoid foaming and mix gently until the crystals have completely dissolved. The reconstituted Standards can be used only once. This assay requires pipetting of small volumes. To minimize imprecision caused by pipetting, ensure that pipettors are calibrated. It is recommended to suck more than 10μ l for once pipetting.

3. To ensure accurate results, proper adhesion of plate sealers during incubation steps is necessary. Do not allow wells to sit uncovered for extended periods between incubation steps. Once reagents have been added to the well strips, DO NOT let the 5 strips DRY at any time during the assay.

4. For each step in the procedure, total dispensing time for addition of reagents to the assay plate should not exceed 10 minutes.

5. To avoid cross-contamination, change pipette tips between additions of each standard level, between sample additions, and between reagent additions. Also, use separate reservoirs for each reagent.

6. The wash procedure is critical. Insufficient washing will result in poor precision and falsely

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| Application Details | |
|-------------------------|--|
| | elevated absorbance readings. |
| | 7. Duplication of all standards and specimens, although not required, is recommended. |
| | 8. Substrate Solution is easily contaminated. Please protect it from light. |
| Calculation of Results: | Average the duplicate readings for each standard, control, and sample and subtract the average |
| | zero standard optical density. Create a standard curve by reducing the data using computer |
| | software capable of generating a four parameter logistic (4-PL) curve-fit. As an alternative, |
| | construct a standard curve by plotting the mean absorbance for each standard on the x-axis |
| | against the concentration on the y-axis and draw a best fit curve through the points on the |
| | graph. The data may be linearized by plotting the log of the SAA concentrations versus the log |
| | of the O.D. and the best fit line can be determined by regression analysis. It is recommended to |
| | use some related software to do this calculation, such as curve expert 13.0. This procedure will |
| | produce an adequate but less precise fit of the data. If samples have been diluted, the |
| | concentration read from the standard curve must be multiplied by the dilution factor. |
| Restrictions: | For Research Use only |
| Handling | |
| Storage: | 4 °C/-20 °C |
| Storage Comment: | The Assay Plate, Standard, Detection Reagent A and Detection Reagent B should be stored at - |
| | 20°C upon being received. After receiving the kit , Substrate should be always stored at 4°C. |
| Publications | |
| Product cited in: | Groenestege, Thébault, van der Wijst, van den Berg, Janssen, Tejpar, van den Heuvel, van |
| | Cutsem, Hoenderop, Knoers, Bindels: "Impaired basolateral sorting of pro-EGF causes isolated |
| | recessive renal hypomagnesemia." in: The Journal of clinical investigation, Vol. 117, Issue 8, |
| | pp. 2260-7, (2007) (PubMed). |
| | Herbst: "Review of epidermal growth factor receptor biology." in: International journal of |
| | radiation oncology, biology, physics, Vol. 59, Issue 2 Suppl, pp. 21-6, (2004) (PubMed). |

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