

(For scientific research use only, not for clinical diagnosis!)

**Human Inhibin A (INHA) Quantitative
Detection Kit (ELISA) Instructions for Use
Specification: 48T/96T Catalog Number:
YPJ1494**

Please read the instructions carefully before use. If you have any questions,
please contact us through the following methods: Official hotline: 400-999-
8863 Technical phone: 18358180525 Email: UpingBio@163.com Company
website: www.upingbio.com For the specific shelf life, please see the outer
packaging label of the kit. Please use the kit within the shelf life.

When contacting us, please provide the product number and production date (see box label) so that we
can serve you more efficiently.

Kit performance Physical properties: Each liquid component is clear and transparent, with no precipitation or floc. Microplate aluminum foil bags should be vacuum packed without damage or leakage.

Standard curve linearity: Calibrator dose-response curve correlation coefficient r value, greater than or equal to 0.9900.

Precision: intra-batch variation coefficient CV% is less than 10%; inter-batch variation coefficient CV% is less than 15%.

Sensitivity: The lowest detectable dose is less than 7.812 pg/mL.

Recovery rate: The recovery rate is between 85%-115%.

Sensitivity: This kit recognizes native and recombinant human inhibin A (INHA) and has no crossover with structural analogs.

Stability: Stored at 2°C-8°C, validity period is 6 months.

Detection range: 62.5 pg/mL-1000 pg/mL.

Purpose: Used to detect the concentration of human inhibin A (INHA) in serum, plasma, cell culture supernatant and other samples.

Experimental principle The kit uses enzyme-linked immunoassay method. Biotin-labeled human inhibin A (INHA) is used, and the purified anti-human inhibin A (INHA) antibody is coated on the microplate. In the competitive inhibition reaction, a certain amount of solid-phase antibody and biotin-labeled human inhibin A (INHA) and unlabeled antigen (calibrator or specimen) inhibit the competitive reaction. The binding amount of the antibody and biotin-labeled human inhibin A (INHA) is inhibited by the amount of unlabeled antigen. If the amount of unlabeled antigen is large, the antibody and biotin The labeled human inhibin A (INHA) will bind less, otherwise it will bind more; after the reaction is balanced, a solid-phase antibody-biotinylated human inhibin A (INHA) is formed, and then the enzyme-labeled avidin is added to form a solid

phase Antibody-biotinylated human inhibin A (INHA)-enzyme label-avidin complex. After adding substrate for color development, use a microplate reader to measure the absorbance (OD value) at a wavelength of 450 nm. As the concentration of human inhibin A (INHA) increases, the OD value gradually decreases with a good linear relationship. This kit has the characteristics of high sensitivity, strong specificity, good repeatability, simple and rapid operation, and has reliable detection performance for the reduction or increase of human inhibin A (INHA) in samples.

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Kit components and storage: Store unopened kits at 2-8

degrees Celsius. Do not use expired kits.

Components	quantity	Main ingredients
Calibrator	0.5ml/tube*6 tubes	6 concentration standards formulated for antigen
coated microplate	96T/48T	Pre-coated solid phase antibodies
HRP labeled antibodies	6mL	HRP-labeled detection antibodies
biotinylated antigen	6mL	Detect antigen
sample diluent	6mL	Phosphate buffer
Substrate solution A	6mL	hydrogen peroxide working fluid
Substrate solution B	6mL	TMB working fluid
stop solution	6mL	acidic solution
20×concentrated washing liquid	30mL	PBS with 0.15% Tween20
manual	1 serving	--
Ziplock bag	1	--
self-adhesive	2 tablets	--

The concentrations of calibrators are: 1000, 500, 250, 125, 62.5, 0 pg/mL.

Note: 1: Before use, please check whether the label and quantity of

the reagents in the kit are consistent with the table.

2: If the components of the kit need to be used again, please ensure that they have

not been contaminated since the last use. 3: If the enzyme plate is not used up in a

single time, remember to seal it and store it at 2-8°C.

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Self-prepared test equipment required for the test

(not provided, but can be purchased with

assistance) 1. Standard specification microplate

reader.

2. Automatic plate washing machine.

3. Oscillator.

4. A series of adjustable pipettes and tips. When testing a large number of samples at one time, it is best to use a multi-channel pipette.

Restrictions on the kit: For scientific

research use only, not for clinical

diagnosis.

Use within the validity period marked on the kit. Expired products must not be used.

Do not mix with kits or components from other manufacturers.

Use the sample diluent provided with the kit.

If the sample value is higher than the highest standard concentration value, please dilute the sample appropriately and then re-measure. Human anti-mouse and other heterophilic antibodies present in the sample to be tested will interfere with the test results. Please rule out this factor before testing.

Test results obtained by other methods are not directly comparable to the results of this kit.

Notes: 1) This kit is for in vitro research only and

not for clinical diagnosis.

2) Please wear a lab coat and latex gloves for protection during the test. Especially when testing blood or other body fluid samples, please follow the national biological laboratory safety protection regulations.

3) Carry out incubation strictly according to the specified time and temperature to ensure accurate results. All reagents must reach room temperature 20-25°C before use. Store reagents refrigerated immediately after use.

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- 4) Improper plate washing can lead to inaccurate results. Make sure to absorb as much liquid as possible from the wells before adding substrate. Do not allow the microwells to dry out during incubation.
- 5) Eliminate residual liquid and fingerprints on the bottom of the plate, otherwise it will affect the OD value.
- 6) The substrate chromogenic solution should be colorless or very light in color.
- 7) Avoid cross-contamination of reagents and specimens to avoid erroneous results.
- 8) Avoid direct exposure to strong light during storage and incubation.
- 9) Equilibrate to room temperature before opening the sealed bag to prevent water droplets from condensing on the cold slats.
- 10) Any reaction reagents must not come into contact with bleaching solvents or strong gases emitted by bleaching solvents. Any bleaching ingredients will destroy the biological activity of the reagents in the kit.
- 11) The microplate reader used for detection needs to be equipped with a filter capable of detecting a wavelength of $450\pm 10\text{nm}$, and the optical density range is between 0-3.5. It is recommended to preheat 15 minutes in advance before use.
- 12) Do not mix or replace the reagents in this kit with reagents from other batch numbers or other sources.
- 13) The EP tubes and tips used in the test are single-use and are strictly prohibited from mixing.
- 14) Do not use expired reagents.

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Sample preparation and storage

The following lists only general guidelines for sample collection and preservation. During the collection and storage of all samples, sodium azide must not be used as a preservative. If the sample is not analyzed immediately, it should be aliquoted and stored frozen, and repeated freezing and thawing should be avoided.

Cell culture supernatant - centrifuge to remove precipitate, analyze immediately or aliquot and store frozen at -20°C.

Serum - Collect blood in a clean test tube, coagulate at room temperature for 30 minutes, centrifuge at 2000×g for 20 minutes, and collect serum. Analyze immediately or aliquot and store frozen at -20°C.

Plasma—anticoagulate with heparin, citrate, or EDTA, and centrifuge at 2000×g for 20 minutes at 2-8°C within 30 minutes of blood draw. To eliminate the influence of platelets, it is recommended to further centrifuge at 10,000 × g for 10 minutes at 2-8°C. Analyze immediately or aliquot and store frozen at -20°C.

Cell lysis buffer - For adherent cells, remove the culture medium and wash with PBS, normal saline or serum-free culture medium. Add an appropriate amount of lysis solution and pipet several times with a gun to fully contact the lysate and cells. Typically after 10 seconds, cells are lysed. For suspended cells, collect the cells by centrifugation and wash them once with PBS, physiological saline or serum-free culture medium. Add an appropriate amount of lysis solution, blow the cells with a gun, and flick them with your fingers to fully lyse the cells. After full lysis, centrifuge at 10000-14000×g for 3-5 minutes and take the supernatant. Analyze immediately or aliquot and store frozen at -20°C.

Urine - Collect in sterile tubes and centrifuge at 2000×g for 20 minutes. Carefully collect the supernatant. If a precipitate forms, centrifuge again.

Reagent preparation Before use, all components must be rewarmed for at least 120 minutes to ensure sufficient rewarming to room temperature.

Concentrated washing liquid: The concentrated washing liquid taken out from the refrigerator will produce crystals. This is a normal phenomenon. Heating in a water bath will completely dissolve the crystals. Concentrated detergent and distilled water, dilute 1:20, that is, 1 part of concentrated detergent, add 19 parts of distilled water. Substrate: Substrate solutions A and B, mix thoroughly at a volume of 1:1 before use, and use within 15 minutes after mixing.

Operating procedures

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1. Move various reagents to room temperature and equilibrate for half an hour. Take the concentrated washing solution, dilute it with distilled water 1:20 according to the number of tests in the batch, mix well and set aside.
2. Take out the pre-coated plate from the sealed bag, set a blank control well without adding any liquid; set 2 holes for each calibrator, add 50 μ l of the corresponding calibrator to each well; add the serum to be tested directly to each of the remaining detection holes. Or 50 μ l of quality control product.
3. Add 50 μ l of biotinylated antigen to all wells except the blank well, mix well, attach sealing film, and incubate at 37°C for 60 minutes. 4. Manual plate washing: discard the liquid in the wells, fill each well with washing solution, let stand for 10 seconds and spin dry, repeat 3 times and pat dry. Wash the plate with a plate washer: select the washing program 3 times and pat dry after washing the plate.
5. Add 50 μ l of enzyme-labeled avidin to each well (except the blank control well), mix well, attach a sealing film, and incubate at 37°C for 30 minutes. 6. Manual plate washing: discard the liquid in the wells, fill each well with washing solution, let stand for 10 seconds and spin dry, repeat 3 times and pat dry. Wash the plate with a plate washer: select the washing program 3 times and pat dry after washing the plate.
7. Add 50 μ l of chromogen A and 50 μ l of chromogen B to each well. After shaking and mixing, place at 37°C to develop color in the dark for 15 minutes. Add 50 μ l of stop solution to each well.
8. Use a microplate reader to read, take the wavelength of 450nm, first use the blank control well to adjust the zero point, and then measure the optical density value (OD value) of each well.

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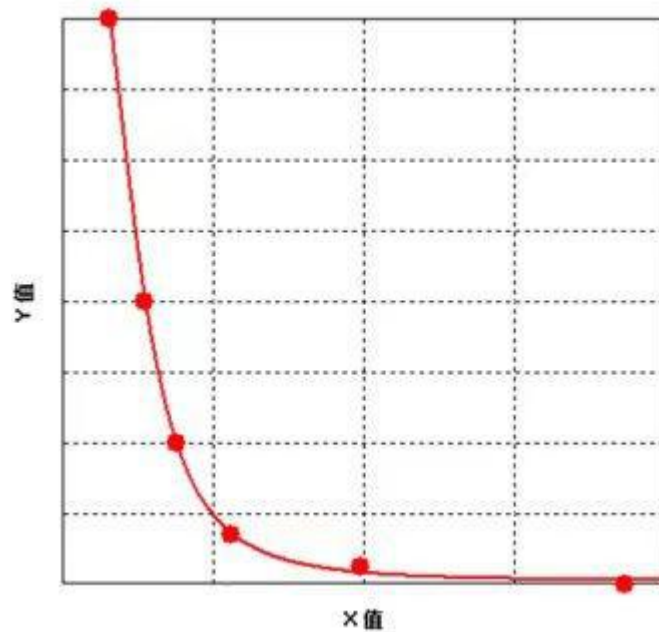
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Result calculation

9. Use the concentration of the standard substance as the abscissa and the corresponding absorbance (OD value) as the ordinate. Use computer software and four-parameter Logistic curve fitting (4-pl) to create a standard curve equation. Through the absorbance (OD value) of the sample value), use the equation to calculate the concentration value of the sample. [Calculation using ELISA Calc software]
10. If the sample is diluted, the concentration value measured by the above method must be multiplied by the dilution factor to obtain the final concentration of the sample.



(Schematic diagram, for reference only)

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[Problem Analysis] If the experimental results are not good, please take pictures of the color development results in time, save the experimental data, keep the used laths and unused reagents, and then contact our company's technical support to solve the problem for you. At the same time, you can also refer to the following information: [Questions and Answers]

Problem Description	Possible Causes	Corresponding countermeasures Corresponding countermeasures
standard curve gradient difference	Incorrect liquid aspiration or pipetting	Check pipettes and tips
	Equilibration time is too short	Ensure sufficient balancing time
	Incomplete washing	Ensure the washing time and number of washes and the amount of liquid added to each hole
Very weak or colorless	Incubation time too short	Ensure adequate incubation time
	Experimental temperature is incorrect	Use recommended experimental temperatures
	Insufficient reagent volume or missing addition	Check the liquid aspirating and adding process to ensure that all reagents are added in order and in
	Incorrect dilution	
	Enzyme label inactivation or substrate failure	Mix enzyme conjugate and substrate and check by rapid color development
Reading value is low	Microplate reader settings are incorrect	Check the wavelength and filter
		Turn on the microplate reader and preheat it in advance
Large coefficient of variation	Adding fluid incorrectly	Check the filling situation
High background value	The working concentration of the reagent is too high	Use the recommended dilution
	Incomplete washing of enzyme plate	Ensure that each step of cleaning is complete; if using an automatic plate washer, please check whether all outlets are blocked;
	The lotion is contaminated	Prepare fresh lotion
Low sensitivity	Improper storage of ELISA kits	Store relevant reagents according to
	Not terminated before reading	Stop solution should be added to

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