

Datasheet for ABIN6975283
Interferon gamma ELISA Kit[Go to Product page](#)

1 Image

11 Publications

Overview

Quantity:	96 tests
Target:	Interferon gamma (IFNG)
Reactivity:	Chicken
Method Type:	Competition ELISA
Detection Range:	3.125 pg/mL - 800 pg/mL
Minimum Detection Limit:	3.125 pg/mL
Application:	ELISA

Product Details

Purpose:	For the quantitative determination of chicken interferon γ (IFN- γ) concentrations in serum, plasma, tissue homogenates.
Sample Type:	Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	<p>This assay has high sensitivity and excellent specificity for detection of chicken IFN-γ. No significant cross-reactivity or interference between chicken IFN-γ and analogues was observed.</p> <p>Note: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between chicken IFN-γ and all the analogues, therefore, cross reaction may still exist.</p>
Components:	<ul style="list-style-type: none">• Assay plate• Standard

Product Details

- HRP-conjugate (100 x concentrate)
 - Sample Diluent
 - HRP-conjugate Diluent
 - Wash Buffer (25 x concentrate)
 - TMB Substrate
 - Stop Solution
 - Adhesive Strip
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- Stop Solution
 - Adhesive Strip

Target Details

Target:	Interferon gamma (IFNG)
Alternative Name:	interferon, gamma (IFNG Products)
Background:	Abbreviation: IFNG Alias: IFG, IFI, IFN-gamma, interferon gamma
UniProt:	P49708
Pathways:	Interferon-gamma Pathway , Cellular Response to Molecule of Bacterial Origin , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , ER-Nucleus Signaling , Regulation of Carbohydrate Metabolic Process , Protein targeting to Nucleus , Autophagy

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Sample Volume:	50 µL
Assay Time:	1 - 4.5 h
Plate:	Pre-coated
Protocol:	<ol style="list-style-type: none">1. Prepare reagents, samples and standards as instructed.2. Set a Blank well without any solution.3. Add 50 µL standard or sample to each well.4. Add 50 µL HRP-conjugate (1x) to each well (Not to Blank well).5. Incubate 1 hour at 37 °C6. Aspirate and wash 5 times.7. Add 90 µL of TMB Substrate to each well. Incubate for 20 minutes at 37 °C. Protect from light.

8. Add 50 µL Stop Solution to each well. Read at 450 nm within 5 minutes.

Reagent Preparation:

1. HRP-conjugate (1x) - Centrifuge the vial before opening. HRP-conjugate requires a 100-fold dilution. A suggested 100-fold dilution is 10 µL of HRP-conjugate + 990 µL of HRP-conjugate Diluent.
2. Wash Buffer(1x)- If crystals have formed in the concentrate, warm up to room temperature and mix gently until the crystals have completely dissolved. Dilute 20 mL of Wash Buffer Concentrate (25 x) into deionized or distilled water to prepare 500 mL of Wash Buffer (1 x).
3. Standard Centrifuge the standard vial at 6000-10000rpm for 30s. Reconstitute the Standard with 1.0 mL of Sample Diluent. Do not substitute other diluents. This reconstitution produces a stock solution of 800 pg/mL. Mix the standard to ensure complete reconstitution and allow the standard to sit for a minimum of 15 minutes with gentle agitation prior to making dilutions. Pipette 150 µL of Sample Diluent into each tube (S0-S4). Use the stock solution to produce a 4-fold dilution series (below). Mix each tube thoroughly before the next transfer. The undiluted Standard serves as the high standard (800 pg/mL). Sample Diluent serves as the zero standard (0 pg/mL).

Note:

- Kindly use graduated containers to prepare the reagent. Please don't prepare the reagent directly in the Diluent vials provided in the kit.
- Bring all reagents to room temperature (18-25 °C) before use for 30 min.
- Prepare fresh standard for each assay. Use within 4 hours and discard after use.
- Making serial dilution in the wells directly is not permitted.
- Please carefully reconstitute Standards according to the instruction, and avoid foaming and mix gently until the crystals have completely dissolved. To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors are calibrated. It is recommended to suck more than 10 µL for once pipetting.
- Distilled water is recommended to be used to make the preparation for reagents. Contaminated water or container for reagent preparation will influence the detection result.

Sample Preparation:

- It is recommended to use fresh samples without long storage, otherwise protein degradation and denaturation may occur in these samples, leading to false results. Samples should therefore be stored for a short period at 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤ 3 months). Repeated freeze-thaw cycles should be avoided. Prior to assay, the frozen samples should be slowly thawed and centrifuged to remove precipitates.
- If the sample type is not specified in the instructions, a preliminary test is necessary to determine compatibility 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 the range 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).

Application Details

Assay Precision:	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in twenty assays to assess.
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Restrictions:	For Research Use only
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Handling

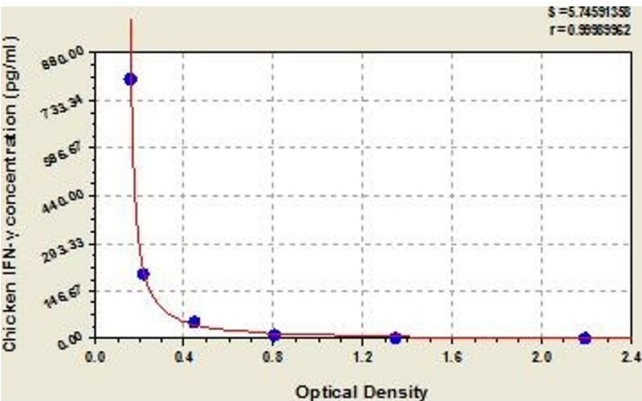
Storage:	4 °C, -20 °C
Storage Comment:	Unopened kit Store at 2 - 8°C. Do not use the kit beyond the expiration date. May be stored for up to 1 month at 2 - 8°C. Coated assay Try to keep it in a sealed aluminum foil bag, plate and avoid the damp. Standard May be stored for up to 1 month at 2 - 8° C. If don't make recent use, better keep it store at HRP-conjugate -20°C. Opened kit HRP-conjugate Diluent Sample Diluent May be stored for up to 1 month at 2 - 8°C. Wash Buffer TMB Substrate Stop Solution *Provided this is within the expiration date of the kit.
Expiry Date:	6 months

Publications

Product cited in:	Bilir, Engin, Can, Temi, Demirtas: "The prognostic role of inflammation and hormones in patients with metastatic cancer with cachexia." in: Medical oncology (Northwood, London, England) , Vol. 32, Issue 3, pp. 56, (2015) (PubMed).
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Bilir, Engin, Can, Likhan, Demirtas, Kuzu, Bayraktaroglu: "Increased serum tumor necrosis factor receptor-associated factor-6 expression in patients with non-metastatic triple-negative breast cancer." in: **Oncology letters**, Vol. 9, Issue 6, pp. 2819-2824, (2015) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



ELISA

Image 1. Typical Standard Curve