ELISA for Human IFN-α (subtype 8,10,14,17)

Product Code: 3424-1H-20

CONTENTS, development kit for 20 plates:

Vial 1 (blue top)
Monoclonal antibody MT3 (500 µl)

Vial 2 (green top)
Biotinylated monoclonal antibody MT4 (250 µl)
Concentration: 1 mg/ml

Vial 3 (white top)
Streptavidin-Horseradish Peroxidase (250 µl)

Vial 4
Lyophilised native human IFN-α standard (0.5 µg)

To ensure total recovery of stated quantity, vials have been overfilled.

STORAGE:
Shipped at ambient temperature. On arrival box 1 should be stored refrigerated at 4-8°C and box 2 should be stored at -20°C.

General

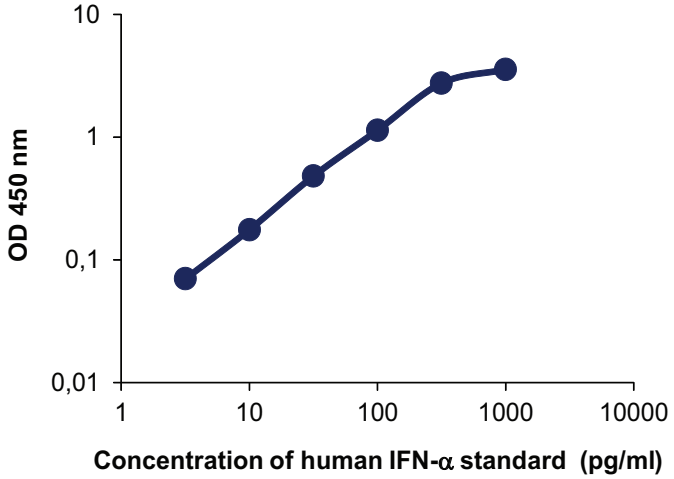
Intended use: For quantitative determination of native and recombinant human IFN-α in solution, e.g. cell culture supernatant. The system will detect native and recombinant human IFN-α subtypes 8, 10, 14 and 17.

Serum/plasma samples: Please note that determination of analyte in human serum/plasma samples by this kit requires the use of ELISA diluent (product code: 3652-D2) for dilution of samples, standard and detection antibody. The diluent prevents false positive read-outs which may be caused by interference of heterophilic antibodies commonly found in human plasma and serum. The ELISA diluent has been validated using serum/plasma from normal healthy human blood donors. Please note that heterophilic antibody interference in samples from human subjects with various diseases or other conditions has not been assessed. Please contact Mabtech for further information.

Reagents: Antibodies are supplied in sterile-filtered (0.2 µm) PBS with sodium azide (0.02%). Streptavidin-HRP is supplied in PBS with 1% BSA and 0.15% Kathon CG.

Standard range: 7-700 pg/ml

Standard calibration: 1 ng of supplied standard equals 400 U of 94/784 NIBSC*-standard according to repeated calibrations. Calibration is batch-specific.



Guidelines for Human IFN-α (subtype 8,10,14,17) ELISA

Day 1

1. Coat a high protein binding ELISA plate with mAb MT3, diluted to 2 µg/ml in PBS, pH 7.4, by adding 100 µl/well. Incubate overnight at 4-8°C.

Day 2

2. Wash twice with PBS (200 µl/well).
3. Block plate by adding 200 µl/well of PBS with 0.05% Tween 20 containing 0.1% BSA (incubation buffer). Incubate for 1 hour at room temperature.
4. Wash five times with PBS containing 0.05% Tween20
5. Prepare hIFN-α standard by reconstituting contents of vial 4 in 1 ml PBS with 0.1% BSA to make up a stock solution of 500 ng/ml. Use immediately or store in aliquots at -20°C for future use. We recommend the aliquots not to be refrozen after initial use. For the test, prepare dilutions of the stock using the standard range as a guideline.
6. Add 100 µl/well of samples or standards diluted in incubation buffer or ELISA diluent for serum/plasma samples and incubate for 2 hours at room temperature.
7. Wash as in step 4.
8. Add 100 µl/well of mAb MT4-biotin at 1 µg/ml in incubation buffer or ELISA diluent for serum/plasma samples. Incubate for 1 hour at room temperature.
9. Wash as in step 4.
10. Add 100 µl/well of Streptavidin-HRP diluted 1:1000 in incubation buffer. Incubate for 1 hour at room temperature. **Please note that sodium azide used in buffers will inhibit HRP activity.**
11. Wash as in step 4.
12. Add 100 µl/well of appropriate substrate solution.
13. Measure the optical density in an ELISA reader after suitable developing time.

NOTE; for research use only.
MABTECH shall not be liable for the use or handling of the product or for consequential, special, indirect or incidental damages therefrom.

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