

Mouse Interferon Alpha (mIFN- α) ELISA Kit

- Catalog Number:** CK2010-1 **Size:** single-plate kit
- Storage Conditions:** Keep at 4°C for greatest stability.
- Range:** 12.5 – 500 pg/ml
- Speed:** Overnight incubation (26 hrs. 15 min.)
- Specificity:** Mouse IFN- α A, α 1, α 4, α 5, α 6, and α 9. No cross-reactivity with mouse IFN- β or IFN- γ . No cross-reactivity with human IFN- α .

Specifications: This kit quantitates mouse interferon alpha in serum or in media using a sandwich immunoassay.^{1,2} The kit is based on an ELISA with anti-secondary antibody conjugated to horseradish peroxidase (HRP). Tetramethylbenzidine (TMB) is the substrate. All reagents are supplied. One pre-coated, microtiter breakaway strip plate (96 wells) is included.

The specific activity of the interferon used as the standard in the kit is based on the international standard for mouse interferon alpha (mIFN- α) provided by the National Institutes of Health.³ A typical standard curve for each lot and a microtiter plate worksheet are included with the procedure. Please note that the concentrations of the detecting antibody and the HRP differ from lot to lot. The differences are the result of Cell Sciences calibrating each kit for optimal sensitivity.

Quality Control: Standard written procedures are followed in the preparation of all ELISA kits. Each group of ELISA kits is assigned a lot number. Sample kits from each lot are retained for periodic evaluation. Kits are guaranteed for four months from the date of production (until further stability testing is complete).

1. Staehelin, T., Stähli, C., Hobbs, D.S., and Pestka, S. (1981) "A Rapid Quantitative Assay of High Sensitivity for Human Leukocyte Interferon with Monoclonal Antibodies," in *Methods in Enzymology*, Vol. 79 (S. Pestka, ed.), Academic Press, New York, 589-595.
2. Kelder, B., Rashidbaigi, A., and Pestka, S. (1986) "A Sandwich Radioimmunoassay for Human IFN- α ," in *Methods in Enzymology*, Vol. 119 (S. Pestka, ed.), Academic Press, New York, 582-587.
3. Human IFN- α international reference standard provided by the NIH, reference no. Gxa01-901-535. Pestka, S. (1986) "Interferon Standards and General Abbreviations," in *Methods in Enzymology*, Vol. 119 (S. Pestka, ed.), Academic Press, New York, 14-23.

Usage: **For Research Use Only. Not for use in diagnostic procedures.**

Country of Origin: USA

* This is a generic data sheet and may be subject to change. Please see the package insert shipped with your product for current data.



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