

## Human Interferon Alpha I Recombinant Protein

**Catalog Number:** CR2012      **Size:** 1 x 10<sup>5</sup> units

**Description:** Recombinant Human Interferon Alpha I (hIFN- $\alpha$ I; hIFN- $\alpha$ 17)

**Concentration:** 1 x 10<sup>6</sup> units/ml

**Buffer:** phosphate buffered saline (PBS) containing 0.1% bovine serum albumin (BSA)

**Molecular Weight:** 19,259

**Purity:**  $\geq$ 95%

**Source:** gene obtained from human leukocytes expressed in *E. coli*

**Human Gene:** IFNA17

**Specific Activity:** 1.4 x 10<sup>8</sup> units/mg

**Assay Used to Measure Bioactivity:**

Interferon was titrated with the use of the cytopathic effect inhibition assay as described [Rubinstein, S., Familletti, P.C., and Pestka, S. (1981) "Convenient Assay for Interferons," *J. Virol.* **37**, 755-758; Familletti, P.C., Rubinstein, S., and Pestka, S. (1981) "A Convenient and Rapid Cytopathic Effect Inhibition Assay for Interferon," in *Methods in Enzymology*, Vol. 78 (S. Pestka, ed.), Academic Press, New York, 387-394]. In this antiviral assay for interferon about 1 unit/ml of interferon is the quantity necessary to produce a cytopathic effect of 50%. The units are determined with respect to the international reference standard for human interferon alpha A (hIFN- $\alpha$ A) provided by the National Institutes of Health [see Pestka, S. (1986) "Interferon Standards and General Abbreviations," in *Methods in Enzymology* (S. Pestka, ed.), Academic Press, New York **119**, 14-23]. Unit of activity measured on bovine MDBK cells with vesicular stomatitis virus (VSV).

**Shipping Temperature:** Dry ice

**Physical State of Product During Shipping:** Frozen

**Special Conditions/Comments:** After receipt, this product should be kept at -70°C or below for retention of full activity. When thawing, the contents of the tube should be apportioned in separate tubes so that freezing and thawing is kept to a minimum. Dilute only in buffers containing protein such as 0.1% bovine serum albumin (BSA).

**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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