

## Rat Interferon Alpha Recombinant Protein

**Catalog Number:** CR2046                      **Size:** 1 x 10<sup>5</sup> units

**Description:** Recombinant Rat Interferon Alpha (Rat IFN- $\alpha$ )

**Concentration:** 1 x 10<sup>5</sup> units/ml after reconstitution with 1 ml sterile distilled water

**Buffer:** 50 mM Tris-HCl; 20 mM citric acid; 150 mM NaCl, pH 7 with 200  $\mu$ g/ml rat serum albumin; and 125 mM trehalose after reconstitution

**Molecular Weight:** 19,000

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

**Source:** cDNA expressed in baculovirus

**Specific Activity:** 2.0 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%. As there is no international Rat IFN- $\alpha$  standard, units are determined with respect to the international reference standard for mouse interferon alpha/beta (mouse IFN- $\alpha/\beta$ ) 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 rat epithelial-like (RATEC) cells with VSV in the presence of 2mM glutathione.

**Shipping Temperature:** Dry ice

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

**Special Conditions/Comments:** After receipt, this product should be kept at 4°C while lyophilized and at -70°C after reconstitution 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.

