

## Rat Interferon Beta Recombinant Protein

**Catalog Number:** CR2047                      **Size:** 2 x 10<sup>5</sup> units                      **Lot:** 2265

**Description:** Recombinant Rat Interferon Beta (Rat IFN-β). Active on rat and mouse cells.

**Concentration:** 4 x 10<sup>5</sup> units/ml after reconstitution with 0.5 ml sterile distilled water

**Buffer:** phosphate buffered saline (PBS); 125 mM trehalose

**Molecular Weight:** 19,680

**Purity:** >95%

**Source:** cDNA expressed in CHO cells

**Specific Activity:** 6 x 10<sup>7</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-β standard, units are determined with respect to the international reference standard for mouse interferon alpha/beta (mouse IFN-α/β) 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.

**Reference:** Ruuls, S.R. *et al.*, (1996) *J Immunol.* **157**: 5721-5731.

**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

