

Universal Type I Interferon Recombinant Protein

Catalog Number: CR2018 **Size:** 1 x 10⁵ units

Description: Alpha interferon hybrid (human interferon alpha A/D [Bg/II]) constructed from recombinant hIFN- α A and hIFN- α D. It is active on virtually every mammalian cell, substituting for any human, monkey, mouse, bovine, rat, cat, dog, rabbit, sheep, goat, horse, pig and hamster type I interferon (alpha, beta, omega and tau).

Concentration: 1 x 10⁶ units/ml

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

Molecular Weight: 19,395

Purity: \geq 95%

Specific Activity: 1.1 x 10⁸ 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- α 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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