

Human Interferon Alpha 1 Recombinant Protein

Catalog Number: CR2015 **Size:** 1 x 10⁵ units

Description: Recombinant Human Interferon Alpha 1 (hIFN- α 1; h[Ala¹¹⁴]IFN- α D)

Concentration: 1 x 10⁶ units/ml

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

Molecular Weight: 19,386

Purity: $\geq$ 95%

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

Human Gene: IFNA1

Specific Activity: 1.4 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.



Cell Sciences, Inc.
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Web Site: www.cellsciences.com

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