



PBL InterferonSource

HUMAN INTERFERON ALPHA SAMPLER

Product Number: 11001-1

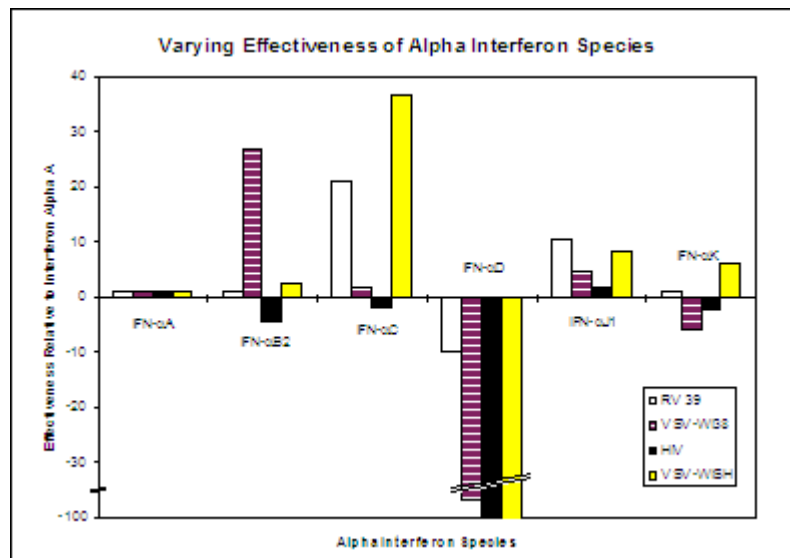
Lot Number:

Size: 2×10^4 units per vial

Introduction

While human interferon alpha A (Hu-IFN- A) has worked reasonably well in most applications, there are twelve identified individual species in the human interferon- family, each with vastly different properties. Some have proven to be ten and twenty times more effective than Hu-IFN- A in protecting a cell against specific viruses (see graph). Nonetheless, ninety-nine percent of the human interferon- sold for research is still IFN- A (IFN- 2a) or the closely related IFN- 2 (IFN- 2b).

The Human Interferon- Sampler can help you find the right alpha interferon for your research. The Sampler contains 20,000 units of each of the species. By testing and selecting specific alpha interferons to meet your research needs, not only could you see improved effectiveness and reduce the amount of material required, but you could increase your understanding of how interferons function.



Sperber, S., et al. [1992] J. Interferon Research 12: 363-368
Sperber, S., et al. [1993] Antiviral Research 22: 121-129

Product Information

Contents: 2×10^4 units /vial

Volume: 0.1 ml

Concentration: 2×10^5 units/ml

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

Purity: 95%

Source: cDNA obtained from human leukocyte mRNA expressed in *E. coli*

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131 Ethel Road West, Suite 6 • Piscataway, NJ 08854 USA • Telephone: 732.777.9123 • Facsimile: 732.777.9141
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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 (Hu-IFN- 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).

References: For more information on the various alleles of IFN alpha 2a, 2b, 4a, 4b, 1 and D

1. Gewart, DR., *et al.* [1995]. *J Interferon Cytokine Res.* 15 (5):403
2. Hussain, M., *et al.* [1997]. *J Interferon Cytokine Res.* 17 (9):559
3. Hussain, M., *et al.* [2000]. *J Interferon Cytokine Res.* 20: 763

Materials Supplied

Part No.	Human Interferon Subtype Description	Component Lot No.	Accession Number	Gene	Specific Activity u/mg	Molecular Weight kDa	Theoretical pl	Reference Product No.*
1	Alpha A [2a]		V00549	IFNA2	2.0 x 10 ⁸	19.2	5.99	11100
2	Alpha B2 [8]		X03125	IFNA8	4.6 x 10 ⁸	19.5	5.18	11115
3	Alpha C [10]		X02961	IFNA10	2.3 x 10 ⁸	19.4	5.7	11120
4	Alpha D [1 [Val 114]]		V00538	IFNA1	7.5 x 10 ⁷	19.4	5.18	11125
5	Alpha F [21]		V00540	IFNA21	6.3 x 10 ⁸	19.3	5.99	11130
6	Alpha G [5]		X02956	IFNA5	2.3 x 10 ⁸	19.5	5.46	11135
7	Alpha H2 [14]		X02959	IFNA14	1.1 x 10 ⁸	19.7	6.38	11145
8	Alpha I [17]		V00532	IFNA17	1.4 x 10 ⁸	19.3	5.46	11150
9	Alpha J1 [7]		X02960	IFNA7	2.2 x 10 ⁸	19.6	5.87	11160
10	Alpha K [6]		X02958	IFNA6	1.5 x 10 ⁸	19.7	6.43	11165
11	Alpha 4b [4]		X02955	IFNA4	1.8 x 10 ⁸	19.4	5.76	11180
12	Alpha WA [16]		X02957	IFNA16	2.4 x 10 ⁸	19.3	5.96	11190

*The Reference Product Numbers are provided for ease of ordering the individual human alpha subtypes. Please use this information to order the standard package size(s) offered for each of the alpha subtypes.

Additional background information on the different interferon alpha subtypes is available upon request.

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Shipping Information

Shipping Conditions: 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. Dilution of material below 2×10^5 units/ml is not recommended.

This Product is for RESEARCH USE ONLY and is not for sale or use in any *commercial* kit or for use in the preparation of any *commercial* antibody. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

v1.2

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