

Recombinant Human Interferon- α A/D (*Bgl* II)








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

Rev. 1.00

Catalog Number:	PHC4044
Quantity:	10 ⁵ Units
Lot Number:	See product label.
Molecular Weight:	19.4 kDa
Description:	A hybrid recombinant human IFN- α constructed from human interferon- α A and human interferon- α D. This interferon is highly reactive on human, primate, mouse, rat, hamster, canine, feline, equine, ovine, caprine, porcine, bovine, and rabbit cells. This product can substitute for any type I interferon (interferon alpha, beta, omega, and tau) in these species. This product is described by Rehberg, et al., 1982.
Purity:	>95%
Biological Activity:	Assay used to measure bioactivity: Interferon was titrated with the use of the cytopathic effect inhibition assay as described by Rubinstein, et al. In this antiviral assay for interferon about 1 unit/mL of interferon is the quantity necessary to produce a 50% cytopathic effect. The units are determined with respect to the international reference standard for human interferon alpha A (Hu-IFN- α A) provided by the National Institutes of Health. The units of activity are determined with bovine MDBK cells infected with vesicular stomatitis virus (VSV).
Formulation:	Phosphate Buffered Saline (PBS) containing 0.1% BSA.
Concentration:	2.1 \times 10 ⁶ units/mL
Specific Activity:	1.8 \times 10 ⁸ units/mg
Production:	Produced in <i>E. coli</i> .
Dilution Recommendation:	Further dilutions should be made in medium or buffered solution containing carrier protein such as PBS with 0.1% BSA.
Storage:	Store at -70°C. Upon initial thawing, apportion into working aliquots and store at -70°C. Avoid repeated freeze/thaw cycles.
Expiration Date:	Expires one year from date of receipt when stored as instructed.
References:	<p>Familletti, P.C., S. Rubinstein, and S. Pestka (1981) A convenient and rapid cytopathic effect inhibition assay for interferon. <i>Meth. Enzymol.</i> 78:387–394.</p> <p>Farrar, J.D., J.D. Smith, T.L. Murphy and K.M. Murphy (2000) Recruitment of Stat4 to the human interferon-alpha/beta receptor requires activated Stat2. <i>J. Biol. Chem.</i> 275(4):2693–2697.</p> <p>Gao, J., B.P. De, Y.L. Han, S. Choudhary, R. Ransohoff, and A.K. Banerjee (2001) Human parainfluenza virus type 3 inhibits gamma interferon-induced major histocompatibility complex class II expression directly and by inducing alpha/beta interferon. <i>J. Virol.</i> 75 (3):1124–1131.</p> <p>Pestka, S. (1986) Interferon standards and general abbreviations. <i>Meth. Enzymol.</i> 119:14–23.</p> <p>Rehberg, E., B. Kelder, E.G. Hoal, and S. Pestka (1982) Specific molecular activities of recombinant and hybrid leukocyte interferons. <i>J. Biol. Chem.</i> 257:11497–11502.</p> <p>Rubinstein, S., P.C. Familletti, and S. Pestka (1981) Convenient assay for interferons. <i>J. Virol.</i> 37:755–758.</p> <p>Seo, S.H., E. Hoffmann, and R.G. Webster (2002) Lethal H5N1 influenza viruses escape host anti-viral cytokine responses. <i>Nature Medicine</i> 8(9):950–954.</p>

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description
	Catalog Number
	Research Use Only
	Use by
	Manufacturer
	Without, does not contain
	Protect from light
	Directs the user to consult instructions for use (IFU), accompanying the product.

Symbol	Description
	Batch code
	In vitro diagnostic medical device
	Temperature limitation
	European Community authorized representative
	With, contains
	Consult accompanying documents

Limited Use Label License: Research Use Only

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