

Recombinant Mouse Interferon Alpha A (IFN- α A)








Publication Part Number MAN0004148







Rev. 1.00

Catalog Number:	PMC4016
Quantity:	1 × 10 ⁵ units in 0.1 mL
Lot Number:	See product label.
Molecular Weight:	19,323
Purity:	≥ 95%
Biological Activity:	7.25 × 10 ⁷ units/mg. The biological activity is determined by titration with the use of the cytopathic effect inhibition assay (Rubinstein et al., 1981). In this antiviral assay for interferon, about 1 unit/mL of interferon is the quantity necessary to inhibit the cytopathic effect by 50% using L929 cells challenged with encephalomyocarditis virus. The units are determined with respect to the international reference standard for mouse interferon alpha (mouse-IFN- α) provided by the National Institutes of Health (Pestka, 1986).
Formulation:	Phosphate buffered saline containing 0.1% BSA.
Production:	Produced in <i>E. coli</i> transfected with mouse DNA.
Dilution Recommendation:	Polypropylene tubes and pipet tips should be used when diluting this interferon. Further dilutions should be made in buffered solution containing a carrier protein, such as BSA. The optimal concentration should be determined for each specific application.
Storage:	Store at -70°C. Upon initial thawing, apportion into working aliquots and store at -70°C. Avoid repeated freeze thaw cycles to prevent denaturation.
Expiration Date:	Expires one year from date of receipt when stored as instructed.
References:	<p>Pestka, S. (1986) Interferon Standards and General Abbreviations. <i>Methods in Enzymology</i> 119:14–23.</p> <p>Rubinstein, S., P.C. Familletti, and S. Pestka (1981) A Convenient and Rapid Cytopathic Effect Inhibition Assay for Interferon. <i>Methods in Enzymology</i> 78:387–394.</p> <p>Cousens, L.P., J.S. Orange, H.C. Su, and C. Biron (1997) Interferon-α/β inhibition of interleukin 12 and interferon-γ production <i>in vitro</i> and endogenously during viral infection. <i>Proc. Nat'l. Acad. Sci.</i> 94:634–639 (cites the use of this recombinant protein).</p> <p>Collier, S.D. and S.B. Pruetz (2000) Mechanisms of suppression of poly I:C-induced activation of NK cells by ethanol. <i>Alcohol</i> 21:87–95 (cites the use of this recombinant protein).</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 (cites the use of this recombinant protein).</p> <p>Subramaniam, P.S., J. Larkin III, M.G. Mujtaba, M.R. Walter, and H.M. Johnson (2000) The COOH-terminal nuclear localization sequence of interferon gamma regulates STAT1 alpha nuclear translocation at an intracellular site. <i>J. Cell Sci.</i> 113(15):2771–2781 (cites the use of this recombinant protein).</p> <p>Eppihimer, M.J., J. Gunn, G.J. Freeman, E.A. Greenfield, T. Chernova, J. Erickson, and J.P. Leonard (2002) Expression and regulation of the PD-L1 immunoinhibitory molecule on microvascular endothelial cells. <i>Microcirculation</i> 9(2):133–145 (cites the use of this recombinant protein).</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

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Revision Date 09 Sep 2011

