

Recombinant Mouse Interferon-gamma (rmIFN- γ)

Publication Number MAN0003695

Revision Date 04 May 2011

Catalog Number:	PMC4034	PMC4031	PMC4033
Quantity:	15 μ g	100 μ g	1 mg
Lot Number:	See product label.		
Concentration:	See product label.		
Molecular Weight:	~15 kDa		
Purity:	>95% by SDS-PAGE analysis		
Amino Acid Sequence:	CYCHGTVIES LESLNYYFNS SGIDVEEKSL FLDIWRNWQK DGDMKILQSQ IISFYLRLE VLKDNQAISN NISVIESHLI TFFSNSKAK KDAFMSIAKF EVNNPQVQRQ AFNELIRVVH QLLPESSLRK RKRSR		
Biological Activity:	ED ₅₀ range = 0.1–0.6 ng/mL (Specific Activity: 1.0×10^7 – 1.6×10^6 units/mg) as determined in a dose response cytoasis assay of the mouse cell line WeHi279, as measured by the reduction of MTS. Optimal concentration for individual application should be determined by a dose response assay.		
Formulation:	Sodium citrate buffer, pH 5.5.		
Endotoxin:	<0.1 ng/mL		
Source:	Recombinant mouse IFN- γ is produced in <i>E. coli</i> and purified via sequential chromatography.		
Dilution:	Stock solutions should be apportioned into working aliquots and stored at –80°C. Further dilutions should be made in medium or buffered solution.		
Storage:	Store mouse IFN- γ at –80°C in aliquots. Keep freeze/thaw cycles to a minimum.		
Expiration Date:	Expires one year from date of receipt when stored as instructed.		
References:	<p>Hirano, T. (1994) The Cytokine Handbook, 2nd edition. (A. Thomson, ed.) Academic Press Limited. San Diego, CA pp. 267, 268–269.</p> <p>Reynolds, D.S., W.H. Boom, and A.K. Abbas (1987) Inhibition of B lymphocyte activation by interferon-γ. J. Immunol. 139(3):767–773. (Bioassay reference).</p> <p>Shi, Y.P., P. Das, B. Holloway, V. Udhayakumar, J.E. Tongren, F. Candal, S. Biswas, R. Ahmad, S.E. Hasnain, and A.A. Lal (2000) Development, expression, and murine testing of a multistage Plasmodium falciparum malaria vaccine candidate. Vaccine 18(25):2902–2914.</p> <p>Rott, D., J.H. Zhu, S. Burnett, Y.F. Zhou, A. Wasserman, J. Walker, and S.E. Epstein (2001) Serum of cytomegalovirus-infected mice induces monocyte chemoattractant protein-1 expression by endothelial cells. J. Infect. Dis. 184(9):1109–1113.</p> <p>Yuasa, T., S. Kubo, T. Yoshino, A. Ujike, K. Matsumura, M. Ono, J.V. Ravetch, and T. Takai (1999) Deletion of Fcγ receptor IIB renders H-2(b) mice susceptible to collagen-induced arthritis. J. Exp. Med. 189(1):187–194.</p> <p>Aviles, H. and F.P. Monroy (2001) Immunomodulatory effects of cold stress on mice infected intraperitoneally with a 50% lethal dose of Toxoplasma gondii. Neuroimmunomodulation 9(1):6–12.</p> <p>Pavlath, G.K. (2002) Regulation of class I MHC expression in skeletal muscle: deleterious effect of aberrant expression on myogenesis. J. Immunol. 125(1–2):42–50.</p> <p>Bockenstedt, L.K., I. Kang, C. Chang, D. Persing, A. Hayday, S.W. Barthold (2001) CD4(+) T helper 1 cells facilitate regression of murine Lyme carditis. Infection and Immunity 69(9):5264–5269.</p> <p>Baker, C.A. and L. Manuelidis (2003) Unique inflammatory RNA profiles of microglia in Creutzfeldt-Jakob disease. Proc. Nat'l. Acad. Sci. USA 100(2):675–679.</p> <p>Lybarger, L., X.L. Wang, M.R. Harris, H.W. Virgin and T.H. Hansen (2003) Virus subversion of the MHC class I peptide-loading complex. Immunity 18(1):121–130.</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

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product only to perform internal research for the sole benefit of the purchaser. No right to resell this product or any of its components is conveyed expressly, by implication, or by estoppel. This product is for internal research purposes only and is not for use in commercial applications of any kind, including, without limitation, quality control and commercial services such as reporting the results of purchaser's activities for a fee or other form of consideration. For information on obtaining additional rights, please contact outlicensing@lifetech.com or Out Licensing, Life Technologies, 5791 Van Allen Way, Carlsbad, California 92008.

For Research Use Only. Caution: Not for human or animal therapeutic or diagnostic use.

Manufactured under ISO 13485 Quality Standard

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

© 2011 Life Technologies Corporation. All rights reserved. The trademarks mentioned herein are the property of Life Technologies Corporation or their respective owners.

For support visit www.lifetechnologies.com/support or email techsupport@lifetech.com

www.lifetechnologies.com

