

Recombinant Mouse Interferon-gamma (rmIFN- γ)

Catalog Number PMC4034 (15 μ g), PMC4031 (100 μ g), PMC4033 (1 mg)

Pub. No. MAN0003695 Rev. A.0








Product specifications

Lot number	See product label.
Concentration	See product label.
Molecular weight	~15 kDa
Purity	>95% as determined by SDS PAGE analysis.
Amino acid sequence	CYCHGTVIES LESLNNYFNS SGIDVEEKSL FLDIWRNWQK DGDMLKLSQ IISFYLRLE VLKDNQAISN NISVIESHLI TTFFSNSKAK KDAFMSIAKF EVNNPQVQRQ AFNELIRVVH QLLPESSLRK RKRSR
Biological activity	ED ₅₀ <0.600 ng/mL, determined by a dose response cytostasis assay of the mouse cell line WeHi279. Determine the optimal concentration for each specific application using an initial dose response assay.
Formulation	Tris buffer, pH 7.4.
Endotoxin	<0.1 ng/mL
Production	Produced in <i>E. coli</i> and purified via sequential chromatography.
Suggested working dilutions	The optimal concentration should be determined for each specific application.
Storage	Apportion stock solutions into working aliquots and store at -80°C. Further dilutions should be made in medium or buffered solution.
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, DS, Boom, WH, and Abbas, AK. (1987) Inhibition of B lymphocyte activation by interferon-γ. J. Immunol. 139(3):767-773. [Bioassay reference].</p> <p>Shi, YP, Das, P, Holloway, B, Udhayakumar, V, Tongren, JE, Candal, F, Biswas, S, Ahmad, R, Hasnain, SE, and Lal, AA. (2000) Development, expression, and murine testing of a multistage Plasmodium falciparum malaria vaccine candidate. Vaccine 18(25):2902-2914.</p> <p>Rott, D, Zhu, JH, Burnett, S, Zhou, YF, Wasserman, A, Walker, J, and Epstein, SE. (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, Kubo, S, Yoshino, T, Ujike, A, Matsumura, K, Ono, M, Ravetch, JV, and Takai, T. (1999) Deletion of Fc γ receptor IIB renders H-2(b) mice susceptible to collagen-induced arthritis. J. Exp. Med. 189(1):187-194.</p> <p>Aviles, H, and Monroy, FP. (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>Pavlati, GK. (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, LK, Kang, I, Chang, C, Persing, D, Hayday, A, Barthold, SW. (2001) CD4(+) T helper 1 cells facilitate regression of murine Lyme carditis. Infection and Immunity 69(9):5264-5269.</p> <p>Baker, CA, and Manuelidis, L. (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, Wang, XL, Harris, MR, Virgin, HW, and Hansen, TH. (2003) Virus subversion of the MHC class I peptide-loading complex. Immunity 18(1):121-130.</p>

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Explanation of Symbols

Symbol	Description	Symbol	Description	Symbol	Description
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	Consult instructions for use		Caution, consult accompanying documents		



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