

Mouse IFNG / Interferon gamma - Purified

Alternate names:	IFN-gamma, gamma IFN
Catalog No.:	PA1046XC
Quantity:	1 mg
Background:	IFN-gamma produced by lymphocytes activated by specific antigens or mitogens. IFN-gamma, in addition to having antiviral activity, has important immunoregulatory functions, it is a potent activator of macrophages, and has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons.
Uniprot ID:	P01580
NCBI:	NP_032363.1
GeneID:	15978
Species:	Mouse
Source:	E. coli
Format:	State: Lyophilized from a sterile filtered concentrated (1.0 mg/ml) solution in PBS, pH 7.4 Purity: >98% Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Reconstitution: It is recommended to reconstitute the lyophilized Interferon-gamma in sterile 18MQ-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Description:	Recombinant Mouse Interferon-gamma produced in E.coli is a single, non-glycosylated polypeptide chain containing 134 amino acids. The IFN-gamma is purified by proprietary chromatographic techniques. AA Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Met-His-Gly-Thr-Val. Biological Activity: The specific activity as determined by the cytopathic affect inhibition assay with murine NIH 3T3 cells challenged with EMC virus was < 0.1 ng/ml. Specific Activity: 1 x 10 ^{e7} U/mg Molecular weight: 16 kDa 15601 Dalton
Storage:	Lyophilized Interferon-gamma although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN-gamma should be stored at 2-8°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles. Shelf life: one year from despatch.

General Readings:

1. Li XY, Qian ZY, Gao JW, Zheng JR. [Effects of triptolide on the production of interferon-gamma in human peripheral blood mononuclear cell and phosphorylation of signal transducer and activator of transcription-1 and production of interleukin-8]. Zhongguo Yi Xue Ke Xue Yuan Xue Bao. 2007 Apr;29(2):158-62. PubMed PMID: 17536259.
2. Lissat A, Vraetz T, Tsokos M, Klein R, Braun M, Koutelia N, et al. Interferon-gamma sensitizes resistant Ewing's sarcoma cells to tumor necrosis factor apoptosis-inducing ligand-induced apoptosis by up-regulation of caspase-8 without altering chemosensitivity. Am J Pathol. 2007 Jun;170(6):1917-30. PubMed PMID: 17525260.
3. De Paiva CS, Villarreal AL, Corrales RM, Rahman HT, Chang VY, Farley WJ, et al. Dry eye-induced conjunctival epithelial squamous metaplasia is modulated by interferon-gamma. Invest Ophthalmol Vis Sci. 2007 Jun;48(6):2553-60. PubMed PMID: 17525184.