

Ifng

Recombinant Mouse Interferon-gamma

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|---------------------------------|--|------------------|-------------------------|
| Catalog No. | CR2041A CR2041B CR2041C | Quantity: | 20 µg 100 µg 1 mg |
| Alternate Names: | IFN-g, IFN-gamma, IFN-γ | | |
| Description: | <p>Interferon gamma (IFN-gamma) is a soluble cytokine and a type II interferon. IFN-gamma is secreted by cells of both the innate and adaptive immune systems. The active protein is a homodimer that binds to the IFN-gamma receptor, which triggers a cellular response to viral and microbial infections. The protein also exerts antiproliferative, immunoregulatory and proinflammatory activities and is thus important in host defense mechanisms. IFN-gamma induces the production of cytokines, upregulates the expression of class I and II MHC antigens, Fc receptor and leukocyte adhesion molecules. It modulates macrophage effector functions, influences isotype switching and potentiates the secretion of immunoglobulins by B cells. Additionally, IFN-gamma augments TH1 cell expansion and may be required for TH1 cell differentiation.</p> <p>Recombinant Mouse Interferon-gamma is a single non-glycosylated polypeptide chain containing 134 amino acids.</p> | | |
| Gene ID: | 15978 | | |
| Protein Accession No: | P01580 | | |
| Source: | <i>E. coli</i> | | |
| Molecular Weight: | ~15.7 kDa | | |
| Formulation: | Lyophilized from a sterile-filtered aqueous solution containing 10 mM sodium phosphate + 50 mM sodium chloride, pH 7.5 | | |
| Purity: | >95% by SDS-PAGE | | |
| Endotoxin Level: | ≤1 EU/µg of protein by kinetic LAL analysis. | | |
| Biological Activity: | Asdetermined by an viral CPE assay using EMC virus on L929 cells. | | |
| Specific Activity: | >1 x 10 ⁶ U/mg | | |
| Amino Acid Sequence: | MHGTVIESLE SLNNYFNSSG IDVEEKSLFL DIWRNWQKDG DMKILQSQII SFYLRLFEVL KDNQAISNNI SVIESHLITT FFSNSKAKKD AFMSIAKFEV NNPQVQRQAF NELIRVVHQL LPESLRKRK RSRC | | |
| Reconstitution: | Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/ml. DO NOT VORTEX. Allow several minutes for complete reconstitution. Further dilutions should be made in appropriate buffered solutions. | | |
| Storage & Stability: | <p>Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store desiccated at -20°C for up to 1 year.</p> <p>Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, freeze in working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution. Avoid repeated freeze-thaw cycles.</p> | | |

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