

## Interferon-Gamma Equine Recombinant

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| <b>Item Number</b>                       | rAP-0471   |
| <b>Synonyms</b>                          | Interferon gamma, IFN-gamma, IFNG.   |
| <b>Description</b>                       | Recombinant Equine Interferon-gamma produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 143 amino acids and having a molecular mass of 16.7kDa. The IFN-gamma Equine is purified by proprietary chromatographic techniques.   |
| <b>Uniprot Accesion Number</b>           | P42160   |
| <b>Amino Acid Sequence</b>               | QAAFFKEIEN LKEYFNASNP DVGDGGPLFL DILKNWKEDS DKKIIQSQIV SFYFKLFENL KDNQVIQKSM DTIKEDLFVK FFNSSTSKLE DFQKLIQIPV NDLKVQRKAI SELIKVMNDL SPKANLRKRK RSQNPFRGRR ALQ.   |
| <b>Source</b>                            | Escherichia Coli.  |
| <b>Physical Appearance and Stability</b> | Sterile Filtered White lyophilized (freeze-dried) powder. 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 4°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 prevent freeze-thaw cycles. |
| <b>Formulation and Purity</b>            | Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4 and 5% trehalose. Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.   |
| <b>Application</b>                       |  |
| <b>Solubility</b>                        | It is recommended to reconstitute the lyophilized Interferon-gamma in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.   |
| <b>Biological Activity</b>               | The ED50 as determined by an anti-viral assay using human HeLa cells infected with encephalomyocarditis (EMC) virus is less than 10.0 ng/ml, corresponding to a specific activity of > 1.0 × 105 IU/mg.  |
| <b>Shipping Format and Condition</b>     | Lyophilized powder at room temperature.  |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**