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| Data Sheet | | |
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| Product Information | | |
| **Product Name** | **:** | **Recombinant Human Interferon-gamma (rhIFN-γ)** |
| **Synonyms** | **:** | IFNG, IFG, Immune Interferon, type II interferon, T cell interferon, MAF |
| **Description** | **:** | Interferon gamma (IFNγ) is a dimerized soluble cytokine that is the only member of the type II class of interferons. IFNγ is critical for innate and adaptive immunity against viral, some bacterial and protozoal infections. IFNγ is an important activator of macrophages and inducer of Class II major histocompatibility complex (MHC) molecule expression. (Ref. From Wikipedia) |
| **NCBI Accession No.** |  | NM\_000619.2 |
| **Amino acid sequence** | **:** | **MKYTSYILAFQLCIVLGSLGCYCQDPYVKEAENLKKYFNAGHSDVADNGT**  **LFLGILKNWKEESDRKIMQSQIVSFYFKLFKNFKDDQSIQKSVETIKEDM**  **NVKFFNSNKKKRDDFEKLTNYSVTDLNVQRKAIHELIQVMAELSPAAKTG**  **KRKRSQMLFRGRRASQ** |
| **Molecular Mass** | **:** | 16.87 kDa (144 aa) |
| **Protein Tags** | **:** | No tagging |
| **Source** | **:** | *E. coli.* |
| **Cat. No.** | **:** | JW-H020-0010, JW-H020-0025, JW-H020-0050, JW-H020-0100, JW-H020-0250, JW-H020-0500, JW-H020-1000 |
| **Storage** | **:** | Should be at ≤ -70 ℃ as undiluted aliquots of handy size. Avoid repeated freezing and thawing. |
| **Cross Reactivity** | **:** | Human, Mouse Rat, Monkey, Pig |

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| Quality Control | | | | | | |
| **Test items** |  | | | **Specifications** | | |
| **Appearance** | | | **:** | | Clear, colorless liquid | |
| **Purity** | | | **:** | | Greater than 98 % by RP-HPLC and SDS-PAGE | |
| **Specificity** | | | **:** | | Using Western blot, detection | Z:\신약연구팀\배일근(20151004)\업무-my\4. 활성시험\21년\210315 IFN-gamma 21 19 P사\hIFN-gamma 2101 P D.jpg |
| **Concentration** | | | **:** | | 0.1 mg/㎖, Bradford method |
| **Biological Activity** | | | **:** | | Determined by cytotoxicity of HT-29 indicator cells.  The ED50 is < 0.05 ng/ml, corresponding to a specific activity of > 2.0 × 107 U/mg |
| **Endotoxin** | | | **:** | | Less than 0.1 EU/㎍ as determined by the LAL method | |
| **Formulation** | | | **:** | | 20mM sodium phosphate, 5% glycerol (pH 7.4) without preservative or carrier proteins. | |
| **Stability** | | | **:** | | Stable for up to 12 months at -70 ℃. Stable for a month at 4 ℃. | |
| **Sterility** | | | **:** | | Sterilized through a 0.2 ㎛ membrane filter and packaged aseptically. Culture for 2 weeks, no growth | |
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