

GMP IFN-gamma Protein, Human

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| Cat. No.: | HY-P78552 |
| Synonyms: | Interferon Gamma; IFN-Gamma; Immune Interferon; IFNG |
| Species: | Human |
| Source: | E. coli |
| Accession: | P01579 (Q24-Q166) |
| Gene ID: | 3458 |
| Molecular Weight: | Approximately 16.7 kDa |

PROPERTIES

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| Biological Activity | Measured in anti-viral assays using WISH cells infected with vesicular stomatitisvirus (VSV) and the ED ₅₀ is 8-80 pg/mL. |
| Appearance | Solution. |
| Formulation | Supplied as a 0.22 µm filtered solution of PBS, pH 7.4. |
| Endotoxin Level | <0.01 EU/µg, determined by LAL method. |
| Reconstitution | N/A. |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping | Shipping with dry ice. |

DESCRIPTION

Background

IFN-gamma is a dimeric soluble cytokine that is the only member of type II interferon IFN-gamma is produced by immune cells T cells and NK cells and plays an important role in antimicrobial, antiviral and anti-tumor responses by activating effector immune cells and enhancing antigen presentation. IFN-gamma influences gene regulation by interacting with its receptor IFNGR1 through the JAK-STAT pathway, and can also trigger mTOR, MAPK, and PI3K/AKT signaling pathways. IFN-gamma plays a role in the Class I antigen presentation pathway by inducing the substitution of the catalytic proteasome subunit for the immune proteasome subunit. IFN-gamma upregulates the MHC II complex on the cell surface by promoting the expression of several key molecules such as pepsin B/CTSB, H/CTSH, and L/CTSL. IFN-gamma is involved in the regulation of hematopoietic stem cells under developmental and homeostasis conditions by influencing the development, quiescence and differentiation of hematopoietic stem cells^{[1][2][3][4][5]}.

Caution: Product has not been fully validated for medical applications. For research use only.

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