

IFN- γ , Rat (CHO-expressed)

Cat. No.: Z02982-1

Size: 1.0 mg

Synonyms: Immune Interferon, type II interferon, T cell interferon, MAF

Description:

Interferon- γ (IFN- γ), also known as Type II interferon or immune interferon, is a cytokine produced primarily by T-lymphocytes and natural killer cells. The active form of IFN- γ is an antiparallel dimer that interacts with the receptor IFN- γ R1 and sets off IFN- γ /JAK/STAT pathway. IFN- γ signaling does diverse biological functions primarily related to host defense and immune regulation, including antiviral and antibacterial defense, apoptosis, inflammation, and innate and acquired immunity. While IFN- γ -induced inflammatory cascade summons a variety of immune-related cell types, such as macrophages, natural killer (NK) cells and cytotoxic T lymphocytes (CTLs), IFN- γ is also implicated in resistance to NK cell and CTL responses and in immune escape in a variety of cancers.

Amino Acid Sequence:

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00001 QGTLIESLES LKNYFNSSSM DAMEGKSLLL DIWRNWQKDG
00041 NTKILESQII SFYLRLEFVL KDNQAISNNI SVIESHLITN
00081 FFSNSKAKKD AFMSIAKFEV NNPQIQHKAV NELIRVIHQL
00121 SPESSLRKRK RSRC
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Source: CHO

Species: Rat

Biological Activity: ED₅₀ < 2.5 ng/ml, measured by cytotoxicity assay using WEHI-279 cells, corresponding to a specific activity of > 4×10⁵ units/mg.

Molecular Weight: 15-25 kDa, observed by non-reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Purity: > 95% as analyzed by SDS-PAGE and HPLC.

Endotoxin Level: < 0.2 EU/ μ g, determined by LAL method.

Storage: Lyophilized recombinant Rat Interferon gamma (IFN- γ) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rIFN- γ should be stable up to 1 week at 4°C or up to 2 months at -20°C.