

Overview

Synonyms	Immune Interferon, type II interferon, T cell interferon, MAF
Description	Human Interferon gamma (hIFN-γ) is a macrophage-activating factor and the lone member of Interferon type II. 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.
Species	Human
Source	CHO
Biological Activity	ED ₅₀ < 2 ng/ml, measured in a cytotoxicity assay using HT-29 cells, corresponding to a specific activity of > 5×10 ⁶ units/mg.
Sequence	<p>QDPYVKEAEN LKKYFNAGHS DVADNGTLFL GILKNWKEES</p> <p>DRKIMQSQIV SFYFKLFKNF KDDQSIQKSV ETIKEDMNVK</p> <p>FFNSNKKKRD DFEKLTNYSV TDLNVQRKAI HELIQVMAEL</p> <p>SPAAKTGKRR RSQMLFRGRR ASQ</p>

Properties

Measured Molecular Weight	15-25 kDa, observed by non-reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Human Interferon gamma (IFN-γ) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rh IFN- γ should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

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