

Interferon-gamma (IFN- γ), Human

Cat.no. PK0062

Product size: 10ug 50ug 1mg

Source: CHO

Species: Human

Biological Activity: ED50 < 2 ng/ml, measured in a cytotoxicity assay using HT-29 cells, corresponding to a specific activity of > 5 \times 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 at 100 μ g/ml.

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

Endotoxin Level: <0.2 EU/ μ g, 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.

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.

Amino Acid Sequence:

00001 QDPYVKEAEN LKKYFNAGHS DVADNGTLFL GILKNWKEES

00041 DRKIMQSQIV SFYFKLFKNF KDDQSIQKSV ETIKEDMNVK

00081 FFNSNKKKRD DFEKLTNYSV TDLNVQRKAI HELIQVMAEL

00121 SPAAKTGKRK RSQMLFRGRR ASQ

Synonyms: Interferon gamma; IFN-gamma; Immune interferon; IFNG

Note: For research use only, not for use in diagnostic procedure.