

Interferon-gamma (IFN- γ), Human

Cat.no. PK0035

Product size: 10ug 50ug 100ug 1mg

Source: E. coli

Species: Human

Biological Activity: ED50<0.05ng/ml, measured by cytotoxicity assay using HT 29 cells.

Molecular Weight: 17kDa, observed by reducing SDS-PAGE.

Sequence Analysis: Gln²⁴-Gln¹⁶⁶ (accession number: P01579). Expression construct with an N-terminal Met.

Formulation: Lyophilized after extensive dialysis against PBS.

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

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

Endotoxin Level: <1 EU/ μ g, determined by LAL method.

Storage: Lyophilized recombinant human Interferon gamma (rhIFN - γ) remains stable up to 6 months at lower than -70° C from date of receipt. Upon reconstitution, rhIFN- 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. Recombinant human Interferon gamma (rhIFN- γ) produced in E. coli is a non - glycosylated polypeptide chain of 144 amino acids.

Amino Acid Sequence:

00001 MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE
00041 SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV
00081 KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE
00121 LSPA AKTGKR KRSQMLFRGR RASQ

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

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