Public Protein/Plasmid Library

Interferon gamma (IFN-γ), Rat

Cat.no. PK0282

Product size: 10ug 50ug 1mg
Source: E. coli
Species: Rat

Biological Activity: ED50 <0.5 ng/ml, measured by cytotoxicity assay using WEHI-279 cells, corresponding to a specific activity of >2×10^6 units/mg.

Molecular Weight: 15.5 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH_2O or PBS at 100 μg/ml.

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

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

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

Description: Interferon gamma (IFN-γ), also known as Type II 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-γR1 and activates the IFN-γ/JAK/STAT pathway. IFN-γ signaling promotesbiological functions primarily related to antiviral and antibacterial defense, apoptosis, inflammation, and regulation of innate and acquired immune responses. While IFN-γ–induced inflammatory cascades summon 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 Rat Interferon gamma (IFN-γ) produced in E.coli is a single non-glycosylated polypeptide chain containing 134 amino acids.

Amino Acid Sequence:
00001 GTLIESLESL KNYFNSSSMD AMEGKSLLLD IWRNWQKDGN
00041 TKILESQIIS FYLRLFEVLK DNQAISNNIS VIESHLITNF
00081 FSNSKAKKDA FMSIAKFEVN NPQIQHKAVN ELIRVIHQLS
00121 PESSLRKRKR SRC

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

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