

Interferon-gamma (IFN- γ), Mouse

Cat.no. PK0036

Product size: 20ug 100ug 500ug 1mg

Source: E. coli

Species: Mouse

Biological Activity: ED50<0.15ng/ml, measured by cytotoxicity assay using WEHI-279 cells.

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

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

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

Description: Sharing 41% sequence identity with human Interferon gamma (hIFN- γ), mouse IFN gamma (mIFN- γ) is a macrophage-activating factor. The active form of IFN- γ is an antiparallel dimer that 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 anti-bacterial defense, apoptosis, inflammation, and innate and acquired immunity. While IFN- γ -induced inflammatory cascade summons a variety of immunerelated 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 mouse IFN gamma (rmIFN- γ) produced in E. coli is a non-glycosylated polypeptide chain of 134 amino acids.

Amino Acid Sequence:

00001 MHGTVIESLE SLNNYFNSSG IDVEEKSLFL DIWRNWQKDG

00041 DMKILQSQII SFYLRLFEVL KDNQAISNNI SVIESHLITT

00081 FFSNSKAKKD AFMSIAKFEV NNPQVQRQAF NELIRVVHQL

00121 LPESLRKRRK RSRC

Synonyms: Type II interferon, T cell interferon, MAF, IFNG, IFG, IFI

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