

DATASHEET Version 20181206

IFN-γ, Mouse

Cat. No.: Z02916-100 **Size**: 100.0 ug

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

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 antibacterial 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 avariety of cancers.

Recombinant mouse IFN gamma (rmIFN- γ) produced in *E. coli* is a non-glycosylated polypeptide chain of 134 amino acids. A fully biologically active molecule, rmIFN– γ has a molecular mass of 15 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary refolding and chromatographic techniques at GenScript.

Amino Acid Sequence:

00001 MHGTVIESLE SLNNYFNSSG IDVEEKSLFL DIWRNWQKDG 00041 DMKILQSQII SFYLRLFEVL KDNQAISNNI SVIESHLITT 00081 FFSNSKAKKD AFMSIAKFEV NNPQVQRQAF NELIRVVHQL 00121 LPESSLRKRK RSRC

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.

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