DATASHEET
Version 20181206

IFN-γ, Mouse

Cat. No.: Z02916-1

Size: 1.0 mg

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 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 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:

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00001 MHGTVIESLE SLNNYFNSSG IDVEEKSLFL DIWRNWQKDG
00041 DMKILQSQII SFYLRLFEVL KDNQAISNNI SVIESHLITT
00081 FFSNSKAKKD AFMSIAKFEV NNPQVQRQAF NELIRVVHQL
00121 LPESSLRKRK RSRC
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Source: *E. coli*

Species: Mouse

Biological Activity: ED_{50}<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 ddH_2O or PBS at 100 μg/ml.

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

Endotoxin Level: <1 EU/μg, 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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