CELL APPLICATIONS, INC.

RECOMBINANT PROTEINS
Mouse Interferon gamma

SIZE	CAT. NO.
20 ug	RP2016-20
100 ug	RP2016-100
1000 ug	RP2016-1000

BACKGROUND

Interferon gamma, IFN-γ, is a major immune-modulating molecule produced mainly by T-cells and natural killer cells activated by antigens, mitogens or alloantigens. Most immune cells express IFN-γ receptors and respond to IFN-γ-induced signaling by up-regulating MHC class I expression. Human IFN-γ does not show cross-reactivity with mouse.

Recombinant mouse IFN-γ is a non-glycosylated protein, containing 134 amino acids and having a molecular mass of 15.6 kDa.

Alternative Names:
Type II interferon, T cell interferon, Immune Interferon, MAF

Amino Acid Sequence:
MHGTVIESLE SLNNYFNSSG IDVEEKSLFL DIWRNWQKDG
DMKILQSQII SFYLRLFEVL KDNQAISNNI SVIESHLITT
FFSNSKAKKD AFMSIAKFEV NNPQVQRQAF NELIRVVHQL
LPESSLRKRK RSRC

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:
Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:
Recombinant mouse IFN-γ was lyophilized from 0.5x PBS, pH 7.2.

Stability:
Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:
Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:
The specific activity is determined in a viral challenge assay using EMC virus on L929 cells and is typically 0.3-0.9 ng/mL.