



Recombinant Rat IFN γ
(Interferon gamma)

Catalog Number: 300-04
Accession Number: P01581

Specifications and Uses:

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

Description:

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. Recombinant rat IFN γ is a non-glycosylated protein, containing 135 amino acids, with a molecular weight of 15.6 kDa.

Source: *E.coli*

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

Formulation and Stability:

Recombinant rat IFN γ is lyophilized from 0.5x PBS, pH 7.2.

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 (typically $\geq 95\%$) determined by:

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein.

Biological Activity:

The activity is determined in a viral challenge assay using EMC virus on L929 and is typically less than 0.1 ng/mL.

AA Sequence:

MQGTLIESLE SLKNYFNSSS MDAMEGKSL LDIWRNWQKD GNTKILESQI ISFYLRRLFV LKDNQAISNN
ISVIESHLIT NFFSNSKAKK DAFMSIAKFE VNNPQIQHKA VNELIRVIHQ LSPESLRKR KRSRC

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

Gentaaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium