

GFR4 Recombinant Rat IFN- γ

Description

Interferon γ (IFN- γ) is a type II interferon that is critical during adaptive and innate immune responses to infection. IFN- γ is produced by T cells and Natural Killer cells following antigen-specific activation. IFN- γ binds IFN- γ receptors (IFN- γ R1 and IFN- γ R2), which are expressed on most immune cells, to activate the JAK-STAT pathway. IFN- γ induced signaling increases the expression of class I major histocompatibility complex (MHC) molecules.

Length	135 aa
Molecular Weight	15.6 kDa
Source	E. coli
Accession Number	P01581
Purity	$\geq 95\%$ determined by reducing and non-reducing SDS-PAGE

Specifications

Alternative Names	Interferon- γ , type II interferon, T cell interferon, immune Interferon, MAF, IFG, IFI
Biological Activity	Activity to be determined.
Endotoxin Level	≤ 1.00 EU/ μ g as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 100 mM sodium chloride, pH 7.5
AA Sequence	MQGTLIESLE SLKNYFNSSS MDAMEGKSL LDIWRNWQKD GNTKILESQI ISFYLRLEFEV LKDNQAISNN ISVIESHLIT NFFSNSKAKK DAFMSIAKFE VNNPQIQHKA VNELIRVIHQ LSPESLRRK KRSRC

Preparation and 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 0.1 mg/ml, which can be further diluted into other aqueous solutions. If a precipitate is observed, centrifuge the solution thoroughly and use only the soluble fraction (removing it from the precipitate). A 10% overfill has been added to compensate for any loss of protein in the precipitate.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.