

## IFN gamma Protein, Mouse, Recombinant (E. coli)

### General Information

Synonyms:	IFN-gamma;IFI;Immune Interferon;MAF;IFG;IFNG;type II interferon;T cell interferon
Protein Construction:	His23-Cys155
Species:	Mouse
Expression Host:	E. coli
Accession:	P01580
Molecular Weight:	~15 kDa (Reducing conditions)

### QC Testing

Biological Activity:	ED 50 < 0.15 ng/ml, measured by cytotoxicity assay using WEHI-279 cells.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered solution in PBS.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

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 a variety of cancers.

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