

## IFN gamma Protein, Human, Recombinant (E. coli) V2

### General Information

Synonyms:	IFN gamma;IFI;Interferon Gamma;IFG;Interferon $\gamma$ ;IFN $\gamma$
Protein Construction:	Gln24-Gln166
Species:	Human
Expression Host:	E. coli
Accession:	P01579
Molecular Weight:	16.88 kDa (Predicted); 16 kDa (Reducing conditions)

### QC Testing

Biological Activity:	Measured by a cytotoxicity assay using HT-29 cells. The ED50 for this effect is $\leq 2.0$ ng/mL.(QC verified)
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.01 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM PB, 5% Sucrose, 4% Mannitol, 0.02% Tween 80, pH7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100  $\mu$ g/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:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at  $-80^{\circ}\text{C}$ . For reconstituted protein solutions, the solution can be stored at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

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

IFN $\gamma$  is the major interferon produced by mitogenically or antigenically stimulated lymphocytes. It is structurally different from type I interferon and its major activity is immunoregulation. It has been implicated in the expression of class II histocompatibility antigens in cells that do not normally produce them, leading to autoimmune disease. Interferon gamma is produced mainly by T-cells and natural killer cells activated by antigens, mitogens, or alloantigens. It is produced by lymphocytes expressing the surface antigens CD4 and CD8. IFN $\gamma$  synthesis is induced by IL-2, FGF-basic, and EGF.

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