

## Active Recombinant Human IFNG Protein (Gln24-Gln166), C-His tagged, Animal-free, Carrier-free

Cat. No. IFNG-156H Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Recombinant Human IFNG Protein (Gln24-Gln166) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.

#### Species

Human

#### Source

E.coli

#### ProteinLength

Gln24-Gln166

#### Description

The cytokine IFN gamma could protect cells from viral infections and belongs to the family of interferons. A lot of studies have shown that IFN gamma secreted by antigen triggered cell types, including T cells, naive CD4+ T cells, macrophages, dendritic cells, and B cells. IFN gamma plays an important role to trigger the macrophage act against a diverse group of microbial targets, and the pleiotropic molecule associated with antiproliferative, pro-apoptotic and antitumor mechanisms. Based on the effector cytokine considered as a major effector of immunity, it has been used in the treatment of several diseases.

#### Form

Lyophilized

#### Bio-activity

Measure by its ability to induce cytotoxicity in HT29 cells. The ED50 for this effect is < 1 ng/mL. The specific activity of recombinant human IFN gamma is approximately >2 × 10<sup>6</sup> IU/mg.

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<b>Molecular Mass</b>	The protein has a calculated MW of 17.7 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).
<b>Endotoxin</b>	< 0.01 EU/μg of the protein by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE analysis.
<b>Storage</b>	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

## GENE INFORMATION

<b>Gene Name</b>	IFNG interferon, gamma [ Homo sapiens (human) ]
<b>Official Symbol</b>	IFNG
<b>Synonyms</b>	IFNG; interferon, gamma; interferon gamma; IFN-gamma; immune interferon; IFG; IFI;
<b>Gene ID</b>	3458

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mRNA Refseq [NM\\_000619](#)

Protein Refseq [NP\\_000610](#)

MIM [147570](#)

UniProt ID [P01579](#)

**SDS-PAGE analysis  
of recombinant  
human IFN Gamma.**

kDa

75

63

48


35

25

17

10



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