BOSTER BIOLOGICAL TECHNOLOGY
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# Human recombinant IFN gamma (Interferon gamma) protein, AF

**Catalog Number:** PROTP01579-9

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## Overview

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| Product Name | Human recombinant IFN gamma (Interferon gamma) protein, AF |
| 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. |
| Size | 20ug,100ug,500ug |
| Tag | His Tag (C-term) |
| Form | Lyophilized |
| Source | Escherichia coli |
| Formulation | The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us. |

## Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

## Purity

>95% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 17.7 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).

### Activity

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Measure by its ability to induce cytotoxicity in HT29 cells. The $ED_{50}$ for this effect is <1 ng/mL. The specific activity of recombinant human IFN gamma is approximately >2 x $10^6$ IU/mg.

## Endotoxin

<0.01 EU per 1 ug of the protein by the LAL method.

## Amino Acid Sequence

MQDPYVKEAENLKKYFNAGHSDVADNGTLFLGILKNWKEESDRKIMQSQIVSFYFKLFKNFKDDQSIQKSVETIKEDMNVKFFNSNKKKRDDFEKLTN YSVTDLNVQRKAIHELIQVMAELSPAAKTGKRKRSQMLFQGRRASQ with polyhistidine tag at the C-terminus.

## Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile $H_2O$ to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

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## Usage

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Human recombinant IFN gamma (Interferon gamma) protein, AF

For Research Use Only. Not for use in diagnostic procedures.