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# Recombinant Human IFNγ

## Cat# HST-IFg

### Product Specifications

- Expression of Human Proteins in Human Cells
- Extreme low Endotoxin
- High Purity
- Animal Free and Xeno Free
- Tag Free

**Source:** Human cells derived

**Structure:** Glycosylated dimer

**Purity:** >95% by SDS-PAGE

**Endotoxin Level:** <0.5EU/ug

**Molecular Weight:** 21-25 kDa

**Formulation:** Lyophilized from a 0.2μm filtered solution in PBS without carrier protein

### Activity Assay

IFNγ stimulates STAT1 phosphorylation in human lung microvascular endothelial cells. HLMVECs were serum starved in EBM-2 medium containing 2% FBS for overnight then treated with La IFNγ for 5 minutes at the indicated concentrations ranging from 0.5 to 500 ng/ml. Phosphorylated STAT1 (Tyr701) was detected by phosphor STAT1 antibody by Western Blot.

### Reconstitution

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

### Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -80°C under sterile conditions after reconstitution.

### Protein Description

Interferon gamma (IFNγ) is a dimerized soluble cytokine that is the type II class of interferons.IFN-γ signaling in antigen-presenting cells, and antigen-recognizing B and T lymphocytes, regulates the antigen-specific phases of the immune response. IFNγ is critical for innate and adaptive immunity against viral, protozoal, bacterial infections. IFNγ is secreted by Th1, cytotoxic T cells, NKTcells and NK cells. IFNγ is particularly suitable for human CIK activation along with IL-2.

### References

Gray PW, et al (August 1982).Nature 298 (5877): 859-63.

Jiang J ei al. (2013) J Transl Med 11:83.