



Product name:	Recombinant Human IFN-gamma Protein
Cat number:	GRF01038
Size:	20 µg
Synonyms:	IFNG;IFG;IFI
Purification:	> 95% by SDS-PAGE.
Background:	Interferon-gamma (IFN-gamma) is a secreted protein which belongs to the type II interferon family.Recombinant Human IFN-gamma is a 16.8 kDa protein containing 143 amino acid residues. IFN-gamma is produced by a variety of immune cells under inflammatory conditions, notably by T cells and NK cells. IFN-gamma, in addition to having antiviral activity, has important immunoregulatory functions. Interferon-gamma is a central regulator of the immune response and signals via the Janus Activated Kinase (JAK)-Signal Transducer and Activator of Transcription (STAT) pathway.
Form:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.
Storage:	Store at -20°C.Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Tags:	No tag
Description:	High quality, high purity and low endotoxin recombinant Recombinant Human IFN-gamma Protein (RP01038), tested reactivity in E. coli and has been validated in SDS-PAGE.100% guaranteed.
Endotoxin:	< 0.1 EU/µg of the protein by LAL method.
Bio-Activity:	1.Measured by its binding ability in a functional ELISA. Immobilized Human FNGR1/CD119 at 1 µg/mL (100 µL/well) can bind Human IFNG with a linear range of 0.98-1.97 ng/mL. 2.Measured in a cytotoxicity assay using HT-29 cells. The ED 50 for this effect is 0.74-2.96 ng/mL, corresponding to a specific activity of 3.38×10 ⁵ ~1.35×10 ⁶ units/mg. 3.Flow cytometry: 1X10 ⁶ A549 cells treated with IFN-γ (RP01038,1 ng/mL) were surface-stained with PE Rabbit IgG isotype control (A24172,5 µl/Test,left) or PE Rabbit anti-Human PD-L1/CD274 mAb (A26692,5 µl/Test,right).4.Flow cytometry: 1X10 ⁶ NCI-H460 cells treated with IFN-γ (RP01038,1 ng/mL) were surface-stained with PE Rabbit IgG isotype control (A24172,5 µl/Test,left) or PE Rabbit anti-Human PD-L1/CD274 mAb (A26692,5 µl/Test,right)
Formulation:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

For Research Use Only

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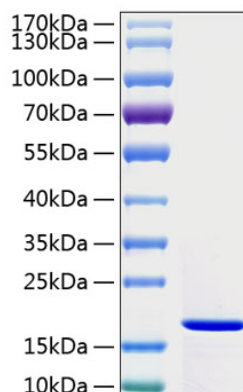
Web-site: <https://immunologicalsciences.com> - E-mail: info@immunologicalsciences.com

Reconstitution: Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

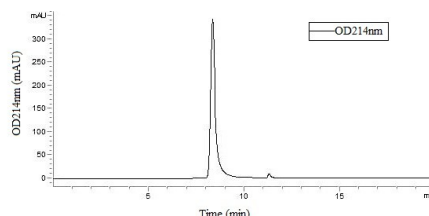
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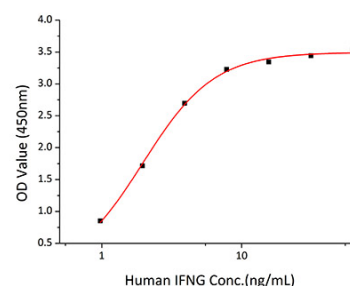
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Recombinant Human IFN-gamma Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



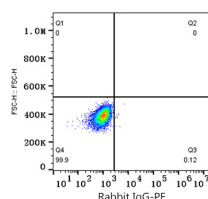
Recombinant Human IFN-gamma Protein is greater than 98.53% as determined by SEC-HPLC.



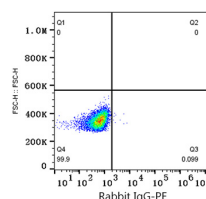
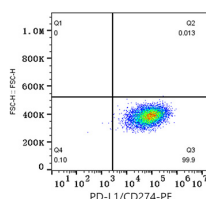
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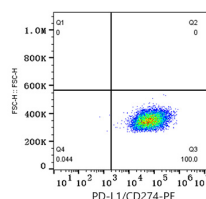
Recombinant Human IFN-gamma induces cytotoxicity in the HT-29 cells. The ED50 for this effect is 0.74-2.96 ng/mL, corresponding to a specific activity of 3.38×10^5 ~ 1.35×10^6 units/mg.



Flow cytometry: 1X106 A549 cells treated with IFN-γ (RP01038, 1 ng/mL) were surface-stained with PE Rabbit IgG isotype control (A24172, 5 µl/Test, left) or PE Rabbit anti-Human PD-L1/CD274 mAb (A26692, 5 µl/Test, right)



Flow cytometry: 1X106 NCI-H460 cells treated with IFN-γ (RP01038, 1 ng/mL) were surface-stained with PE Rabbit IgG isotype control (A24172, 5 µl/Test, left) or PE Rabbit anti-Human PD-L1/CD274 mAb (A26692, 5 µl/Test, right)



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