

Recombinant Human IFN-gamma Protein

RPCB0768

Description

This high-purity Recombinant Human IFN-gamma Protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Protein Information

SKU:	RPCB0768
Contents:	20 µg, 50 µg, 100 µg Bradford Reagent: 1 vial (2ml)
Synonyms:	IFNG, IFG, IFI
Species:	Human
Gene ID:	3458
Expression Host:	-
Tags:	No tag
Calculated MW:	16.78 kDa
Observed MW:	17 kDa
Purification:	≥ 95 % as determined by SDS-PAGE, ≥ 95 % as determined by HPLC.
Endotoxin:	< 0.1 EU/µg of the protein by LAL method.
Formulation:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.
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.

Manufacturers Statement - This final kit system is assembled and quality-released by Assay Genie Limited

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 $3.38 \times 10^5 \sim 1.35 \times 10^6$ units/mg.

3. Flow cytometry: 1×10^6 A549 cells treated with IFN- γ (RPCB0768, 1 ng/mL) were surface-stained with PE Rabbit IgG isotype control (A24172, 5 μ l/Test, left) or PE Rabbit anti-Human PD-L1/CD274 mAb (A26692, 5 μ l/Test, right).

4. Flow cytometry: 1×10^6 NCI-H460 cells treated with IFN- γ (RPCB0768, 1 ng/mL) were surface-stained with PE Rabbit IgG isotype control (A24172, 5 μ l/Test, left) or PE Rabbit anti-Human PD-L1/CD274 mAb (A26692, 5 μ l/Test, right)

Preparation & Storage

Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

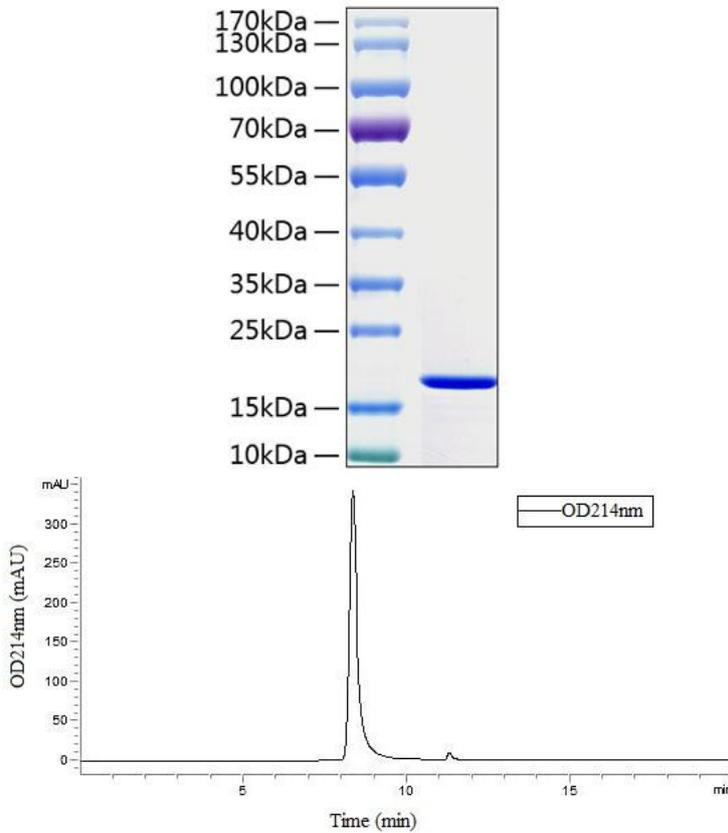
Storage: Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Store Bradford Reagent at Room Temperature for 1 Year.

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.

Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol.

Validation Data

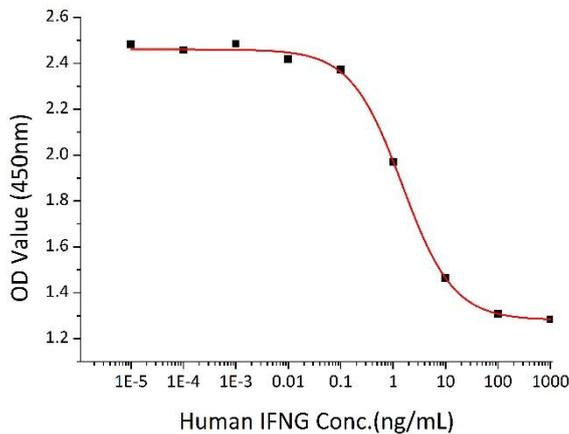
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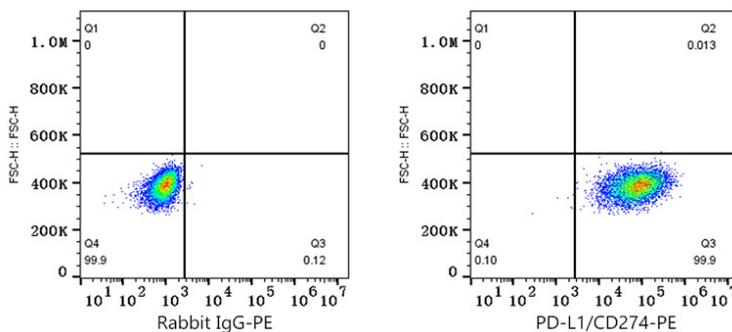
Description

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

The purity of Recombinant Human IFN-gamma Protein is greater than 95% as determined by SEC-HPLC.



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 $3.38 \times 10^5 \sim 1.35 \times 10^6$ units/mg.



Flow cytometry: 1×10^6 A549 cells treated with IFN- γ (RPCB0768, 1 ng/mL) were surface-stained with PE Rabbit IgG isotype control (A24172, 5 μ l/Test, left) or PE Rabbit anti-Human PD-L1/CD274 mAb (A26692, 5 μ l/Test, right)

