

Active Recombinant Human IFNG Protein (Gln24-Gln166), GMP Grade, Animal-Free

Cat. No. IFNG-30HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP recombinant human IFN-gamma protein (Gln24-Gln166) with an N-terminal Met was expressed in E. coli, produced in an Animal-Free laboratory and manufactured and tested under cGMP guidelines.
Species	Human
Source	E.coli
ProteinLength	Gln24-Gln166
Description	This gene encodes a soluble cytokine that is a member of the type II interferon class. The encoded protein is secreted by cells of both the innate and adaptive immune systems. The active protein is a homodimer that binds to the interferon gamma receptor which triggers a cellular response to viral and microbial infections. Mutations in this gene are associated with an increased susceptibility to viral, bacterial and parasitic infections and to several autoimmune diseases.
Bio-activity	Measured in anti-viral assays using HeLa human cervical epithelial carcinoma cells infected with encephalomyocarditis (EMC) virus. The ED50 for this effect is 0.15-0.75 ng/mL. The specific activity of recombinant human IFN-gamma is $>2.0 \times 10^7$ IU/mg, which is calibrated against the human IFN-gamma Standard.
Molecular Mass	Predicted Molecular Mass: 16.9 kDa

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	SDS-PAGE: 17 kDa, reducing conditions
N-terminal Sequence Analysis	Met-Gln24-Asp-Pro-Tyr-Val-Lys-Glu-Ala-Glu
Endotoxin	<0.01 EU/ µg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE with silver staining, under reducing conditions.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. A minimum of 12 months when stored at ≤ -20 centigrade as supplied. Refer to lot specific COA for the Use by Date. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, ≤ -20 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in Sodium Succinate, Mannitol and Tween® 80.
Reconstitution	Reconstitute at 200 µg/mL in sterile, deionized water.
Shipping	The product is shipped with polar packs.

GENE INFORMATION

Gene Name	IFNG interferon, gamma [Homo sapiens]
Official Symbol	IFNG
Synonyms	IFNG; interferon, gamma; interferon gamma; IFN-gamma; immune interferon; IFG; IFI;

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Gene ID 3458

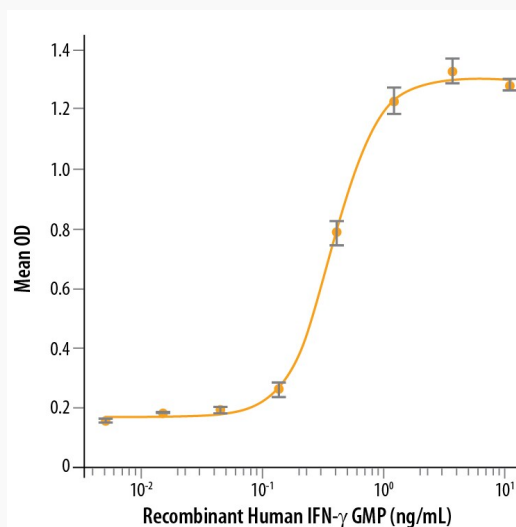
mRNA Refseq NM_000619

Protein Refseq NP_000610

MIM 147570

UniProt ID P01579

Bioactivity

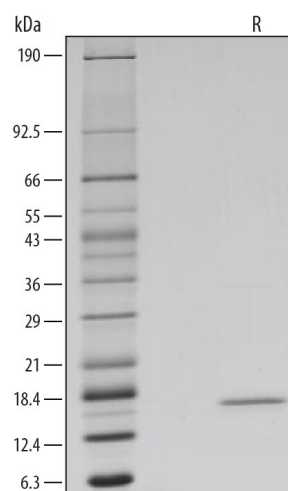


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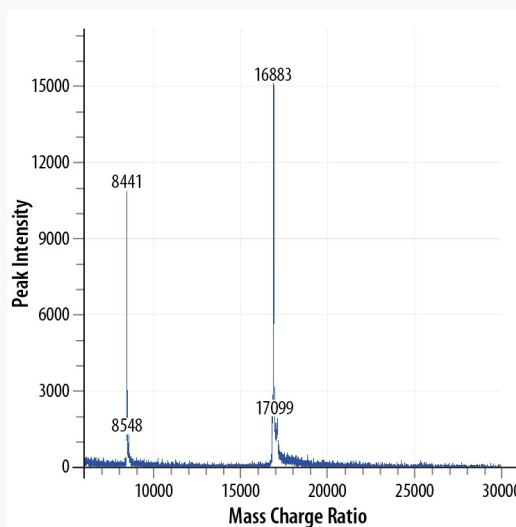
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SDS-PAGE



Mass Spectrometry



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