orders@qkine.com
support@qkine.com

Recombinant human IFN-gamma protein (Qk117)



Type: Stem cells

Available for purchase: Unit Size (µg): 25, 50, 100, 500, 1000

Buy online with secure credit card or purchase order.
View this product and buy online

Product Information

IFN-gamma (interferon-gamma) is a cytokine crucial for immune responses, produced by T cells and natural killer cells. It activates macrophages, enhances antigen presentation, and plays a key role in inflammation.

Qkine has optimized the IFN-gamma manufacture process to produce a highly bioactive protein with excellent lot-to-lot consistency for enhanced experimental reproducibility. Qkine IFN-gamma is a highly pure 16.8 kDa protein, animal origin-free (AOF) and carrier-protein-free (CF).

This protein is also available as GMP compliant Cell Therapy Grade, to enquire email support@qkine.com.

Alternative protein names

Immune interferon, IFN-γ, IFNg, IFN gamma

Molecular weight

16.9 kDa (monomer)

Protein Uniprot number

High purity human IFN-gamma protein (UniProt number: P01579)

Species reactivity

- human

- species similarity:
- mouse - 40%
- rat - 38%
- bovine - 61%
- porcine - 59%

Product Information

- >98%, by SDS-PAGE quantitative densitometry
- Expressed in *E. coli*
- Animal origin-free (AOF) and carrier protein-free
- Manufactured in our Cambridge, UK laboratories
- Lyophilized from HEPES, mannitol

Reconstitution instructions

- Resuspend in sterile-filtered water at >50 µg/ml

Featured applications

- Antigen presentation enhancement
- Autoimmune disease research
- Cancer immunotherapy
- Hematopoietic stem cell regulation
- Immunoregulatory function
- Involvement in infectious diseases

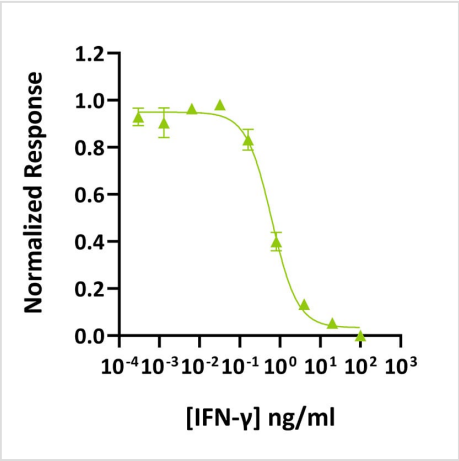
Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein

Scientific Information

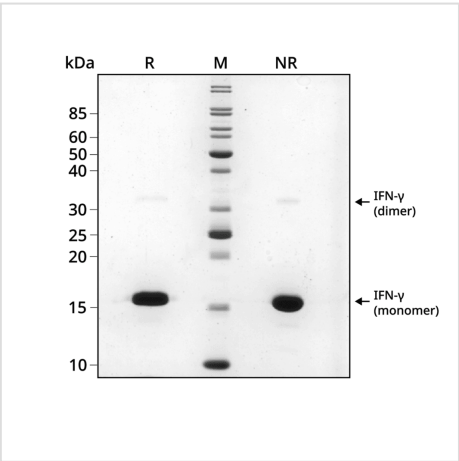
Bioactivity

Recombinant IFN-gamma activity was determined using a cytotoxicity assay. HT-29 cells were treated in triplicate with a serial dilution of IFN-gamma for 88.5 hours. Cell viability was measured using the CellTiter 96 AQueous Cell Proliferation Assay (Promega). Assay was performed by SBH Sciences. Data from Qk117 lot 204692. EC50 = 0.62 ng/mL (37 pM).



Purity

Recombinant IFN-gamma monomer migrates at approximately 17 kDa (monomer) in reduced (R) and non-reduced (NR) conditions. The dimeric form is also observed at approximately 34 kDa. No contaminating protein bands are present. The purified recombinant protein (3 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptoethanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk117 lot #204692.



Original product page: https://qkine.com/product/recombinant-human-ifn-gamma-protein-qk117/

PDF generated: 12 October 2026

Copyright © 2026 by Qkine Ltd. All rights reserved including graphics and images.