



**PACIFIC COAST**  
BIOLOGICS

# Certificate of Analysis

## Animal Free Recombinant Human IFN gamma

Catalog #: HIFNG  
Lot #: 250519  
Expiration: May 2030

### Amino Acid Sequence

MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTNYS  
VTDLNVQRKA IHELIQVMAE LSPAAGTKGR KRSQMLFQGR RASQ

### Product Specifications

- Purity >98% by SDS-PAGE gel and HPLC
- Endotoxin <0.1 EU/μg by the LAL method.
- Molecular Weight 16.8 kDa, as determined by MALDI-TOF mass spectrometry.
- Source: E.coli

### Manufacturing

Produced using non animal derived components in a dedicated animal-free facility.

### Formulation

- Sterile filtered. Lyophilized with 2 mM sodium phosphate pH 7.4

### Biological Activity

The ED50 determined by a cytotoxicity assay using HT-29 cells. The ED50 is 0.26-0.40 ng/ml, corresponding to a specific activity of  $\geq 3 \times 10^6$  units/mg.

### Storage and Handling

#### Reconstitution

Centrifuge the vial briefly before opening. Reconstitute with RO/DI water to a final concentration of 0.1–1 mg/mL (0.1–1 μg/μL). Do not vortex after reconstitution. Avoid repeated freeze–thaw cycles. The lyophilized powder is stable at room temperature, but it is best stored below 0°C. Reconstituted human IFN gamma should be stored at –20°C.

#### Storage (Lyophilized Powder)

- 4°C: Stable for up to 12 months
- –20°C to –80°C: Recommended for long-term storage

**Usage: For Research Use Only. Not for human use.**

Country of Origin, USA  
Director of QA/QC

*Ramon Roach*

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