

Animal, Bacterial & Viral Free - Low Endotoxin - Ultra Pure - High BioActivity

IFNG

Recombinant Human Interferon gamma HQ Tagged

Catalog No.	CRI249A	Quantity:	10 µg
	CRI249B		50 µg
	CRI249C		1 mg
	CRI249D		100 µg

Alternate Names: IFN-gamma, IFG, IFI

Gene ID: 3458

Protein Accession No: NP_000610

Description: Recombinant human IFN-gamma contains 143 amino acid residues and a 13 amino acid HQ tag for a total length of 156 amino acids. The predicted molecular weight of the recombinant IFN-gamma with HQ Tag polypeptide is 16.6 kDa, but the recombinant protein migrates as two bands with an apparent molecular mass of 25 and 27 kDa in SDS-PAGE as a result of glycosylation.

Source: *Hordeum vulgare* (barley grain). Barley grain exhibits up to 50 times less protease activity than *E.coli* or mammalian cells. Barley seed is void of any human or animal viral contaminants that could jeopardize cell culture.

Molecular Weight: 25 and 27 kDa

Formulation: Lyophilized from a 0.2 µm sterile filtered solution in PBS, pH 7.4

Purity: >98% by SDS-PAGE.

Purified product carries no pyrogenic or pro-inflammatory contaminants, as assayed with monocyte activation test using Human 10-plex Cytokine Assay measuring IL-6, TNF-alpha and IL-1beta induction.

Endotoxin Level: < 0.005 ng/µg of IFN-gamma

Biological Activity: Determined by the dose-dependent cytostatic effects of serial dilutions of IFN-gamma in the presence of TNF-alpha, on HT-29 (human carcinoma) cells. The ED₅₀ is typically below 5 ng/ml.

Specific Activity: 2.00 x 10⁵ units/mg

Reconstitution: **Centrifuge vial prior to opening.** Add sterile PBS to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml.

Storage & Stability: Store lyophilized protein at -20°C and reconstituted protein in working aliquots at -20°C with a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. **Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.