

Croyez GMP® IFN gamma (Interferon gamma), Human

v. 230901

Catalog number	C01080-GMP-100 / C01080-GMP-1000
Package	100 µg / 1 mg
Description	Interferon gamma (IFN gamma) is an effective multifunctional cytokine which is released mainly by activated NK cells and T cells. IFN gamma is primarily characterized based on its anti-viral activities, and then been proved to have several functions such as anti-proliferative, immune-regulatory, and pro-inflammatory activities. IFN gamma can upregulate expression of MHC class I and II antigen by antigen-presenting cells.
Expression System	<i>Escherichia coli</i>
Species of Origin	Human
Affinity Tag	His Tag (C-term)
Sequence	Gln24-Gln166
Endotoxin level	<0.05 EU per 1 µg of the protein by the LAL method.
Activity	Measure by its ability to induce cytotoxicity in HT29 cells. The ED ₅₀ for this effect is <1 ng/mL. The specific activity of recombinant human IFN gamma is approximately >2 x 10 ⁶ IU/mg, which is calibrated against the human IFN Gamma WHO Reference Material (NIBSC code: 87/586).
Purity	>95% as determined by SDS-PAGE analysis.
Mycoplasma	Not detected
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 0.5 mg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	<p>This product is stable after storage at:</p> <ul style="list-style-type: none"> -20°C for 12 months in lyophilized state from date of receipt. -20°C or -80°C for 1 month under sterile conditions after reconstitution. <p>Avoid repeated freeze/thaw cycles.</p>

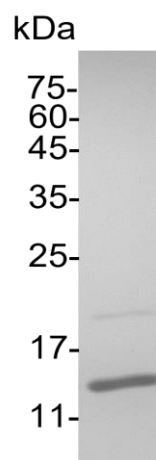
Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include:

Specification

- Animal-free reagent and laboratory
- Manufactured and tested under GMP guideline
- Testing and traceability of raw material
- Records of the maintenance and equipment calibration
- Personnel training records
- Batch-to-batch consistency
- Documentation of QA control and process changes
- Manufactured and tested under an ISO 13485:2016 certified quality management system
- Stability monitor of product shelf-life

Reference

1. Schroder K. et al. (2004) *J Leukoc Biol.* 75,2: 163-89.
2. Schoenborn JR, Wilson CB. (2007) *Adv Immunol.* 96: 41-101.
3. Boehm U. et al. (1997) *Annu Rev Immunol.* 15: 749-95.
4. Ijzermans JN, Marquet RL. (1989) *Immunobiology.* 179,4-5: 456-73.
5. Razaghi A. et al. (2016) *J Biotechnol.* 240: 48-60.



SDS-PAGE analysis of Croyez GMP® IFN gamma, Human

For Research Use Only. Not for use in diagnostic or therapeutic procedures.