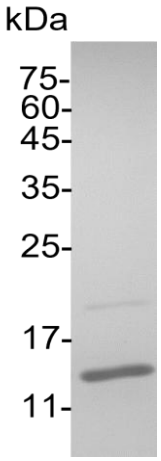
PRODUCT INFORMATION

GMP® IFN gamma (Interferon gamma), Human

v. 250301

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	*Escherichia coli*
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_2O 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	This product is stable after storage at: • -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. Avoid repeated freeze/thaw cycles.

Specification	Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include: • 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 GMP® IFN gamma, Human

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