

APENER Recombinant Human IFN-gamma

Information

Gene ID	3458
Accession #	P01579
Alternate Names	
Source	Escherichia coli.
M.Wt	Approximately 16.9 kDa, a single non-glycosylated polypeptide chain containin 144 amino acids.
AA Sequence	MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAKTGKR KRSQMLFRGR RASQ
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Stability & Storage	- 12 months from date of receipt, -20 to -70 °C as supplied.
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as measured in anti-viral assays using human HeLa cells infected with encephalomyocarditis (EMC) virus is 0.15-0.80 ng/ml.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.

Components and Storage

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Components	ας 100 μg	500 µg
Recombinant Human IFN-gamma	100 µg	500 µg

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Quality Control	Prom	esto esto
Purity	> 98 % by SDS-PAGE and HPLC analyses.	Province of the state of the st
Endotoxin	Less than 1 EU/μg of rHuIFN-γ as determine	d by LAL method.

Description

Interferon-gamma (IFN- γ), also known as Type II interferon or immune interferon, is a cytokine produced primarily by T-lymphocytes and natural killer cells. The protein shares no significant homology with IFN- β or the various IFN- α family proteins. Mature IFN- γ exists as noncovalently-linked homodimers. Human IFN- γ is highly species specific and is biologically active only in human and primate cells. IFN- γ was originally characterized based on its antiviral activities. The protein also exerts antiproliferative, immunoregulatory and proinflammatory activities and is thus important in host defense mechanisms. IFN- γ induces the production of cytokines, upregulates the expression of class I and II MHC antigens, Fc receptor and leukocyte adhesion molecules. It modulates macrophage effector functions, influences isotype switching and potentiates the secretion of immunoglobulins by B cells. IFN- γ also augments TH1 cell expansion and may be required for TH1 cell differentiation.

PENB

Reference

- 1. Pennino D, Bhavsar PK, Effner R, et al. 2012. J Allergy Clin Immunol,
- 2. Hibi M, Hachimura S, Ise W, et al. 2003. Cytotechnology, 43: 49-55.
- 3. Wang H, Ruan Z, Wang Y, et al. 2008. Mol Immunol, 45: 1548-56.
- 4. Kopinski P, Przybylski G, Jarzemska A, et al. 2007. Pol Merkur Lekarski, 23: 15-21.

