

## IFN-gamma Protein, Mouse (155a.a, HEK293)

Cat. No.:	HY-P73251
Synonyms:	IFG; IFI; IFNG; IFN-gamma; Immune interferon; Interferon gamma
Species:	Mouse
Source:	HEK293
Accession:	NP_032363.1 (H23-C155)
Gene ID:	15978
Molecular Weight:	Approximately 17.6&21.7 kDa

### PROPERTIES

AA Sequence	<p>H G T V I E S L E S      L N N Y F N S S G I      D V E E K S L F L D      I W R N W Q K D G D</p> <p>M K I L Q S Q I I S      F Y L R L F E V L K      D N Q A I S N N I S      V I E S H L I T T F</p> <p>F S N S K A K K D A      F M S I A K F E V N      N P Q V Q R Q A F N      E L I R V V H Q L L</p> <p>P E S S L R K R K R      S R C</p>
Biological Activity	Measured by its ability to inhibit the proliferation of HT-29 human coloncancer cells. The ED <sub>50</sub> for this effect is 0.156 ng/mL, corresponding to a specific activity is 6.41×10 <sup>6</sup> Unit/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	IFN-gamma protein, a member of the type II interferon class, is a soluble cytokine secreted by cells of both the innate and adaptive immune systems. In its active form, it exists as a homodimer that binds to the interferon gamma receptor, initiating a cellular response against viral and microbial infections. Mice deficient in this gene exhibit heightened susceptibility to viral, bacterial, and parasitic infections, as well as an increased risk of several autoimmune diseases. In the reference dataset, IFN-gamma demonstrates low expression levels.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA