

Active Recombinant Rat Ifng Protein

Cat. No. Ifng-263I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Ifng Protein without tag was expressed in CHO.
Species	Rat
Source	CHO
Description	Interferon- γ (IFN- γ), also known as Type II interferon or immune interferon, is a cytokine produced primarily by T-lymphocytes and natural killer cells. The active form of IFN- γ is an antiparallel dimer that interacts with the receptor IFN- γ R1 and sets off IFN- γ /JAK/STAT pathway. IFN- γ signaling does diverse biological functions primarily related to host defense and immune regulation, including antiviral and antibacterial defense, apoptosis, inflammation, and innate and acquired immunity. While IFN- γ -induced inflammatory cascade summons a variety of immune-related cell types, such as macrophages, natural killer (NK) cells and cytotoxic T lymphocytes (CTLs), IFN- γ is also implicated in resistance to NK cell and CTL responses and in immune escape in a variety of cancers.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 2.5 ng/mL, measured by cytotoxicity assay using WEHI-279 cells, corresponding to a specific activity of $> 4 \times 10^5$ units/mg.
Molecular Mass	15-25 kDa, observed by non-reducing SDS-PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	QGTLIESLES LKNYFNSSSMDAMEGKSLLLDIWRNWQKDGNTKILESQIISFYLR LFE VLKDNQAISNNISVIESHLITNFFSNSKAKKDAFMSIAKFEVNNPQIQHKAVNELIRVIH QLSPESSLRKRKRSRC
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant Rat Interferon gamma (IFN-γ) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rrIFN-γ should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Ifng interferon gamma [Rattus norvegicus]
Official Symbol	Ifng
Synonyms	IFNG; interferon gamma; IFN-gamma; IFNG2;
Gene ID	25712
mRNA Refseq	NM_138880
Protein Refseq	NP_620235
UniProt ID	P01581

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