

Active Recombinant Mouse Ifng Protein (134 aa)

Cat. No. Ifng-379I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse IFN gamma (rmIFN- γ) produced in E. coli is a non-glycosylated polypeptide chain of 134 amino acids. A fully biologically active molecule, rmIFN- γ has a molecular mass of 15 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary refolding and chromatographic techniques.
Species	Mouse
Source	E.coli
ProteinLength	134
Description	Sharing 41% sequence identity with human Interferon gamma (hIFN- γ), mouse IFN gamma (mIFN- γ) is a macrophage-activating factor. The active form of IFN- γ is an antiparallel dimer that 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	ED ₅₀ < 0.15 ng/mL, measured by cytotoxicity assay using WEHI-279 cells.

 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

Molecular Mass	15 kDa, observed by reducing SDS-PAGE.
AA Sequence	MHGTVIESLESNNYFNSSGIDVEEKSLFLDIWRNWQKDGMKILQSQIISFYLRRLF VLKDNQAISNNISVIESHLITFFSNSKAKKDAFMSIAKFEVNNPQVQRQAFNELIRVV HQLLPESSLRKRKRSRC
Endotoxin	< 1 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by reducing SDS-PAGE.
Storage	Lyophilized recombinant mouse IFN gamma (rmIFN-γ) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmIFN-γ should be stable up to 1week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Ifng interferon gamma [Mus musculus]
Official Symbol	Ifng
Synonyms	IFNG; interferon gamma; IFN-gamma; gamma interferon; Ifg; IFN-g;
Gene ID	15978
mRNA Refseq	NM_008337
Protein Refseq	NP_032363

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UniProt ID

P01580

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