Recombinant Rat interferon gamma Protein, His&Flag tagged

Cat. No. Ifng-046R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat IFN-gamma protein (P01581) (Gln 23-Cys 15) with both His, Flag tag at the C-terminus was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	23-156aa
Description	Interferon gamma (IFN-γ) is a dimerized soluble cytokine that is the only member of the type II class of interferons. In humans, the IFN-γ protein is encoded by the IFNG gene. IFN-γ, or type II interferon, is a cytokine that is critical for innate and adaptive immunity against viral, some bacterial and protozoan infections. IFN-γ is an important activator of macrophages and inducer of major histocompatibility complex class II molecule expression. Aberrant IFN-γ expression is associated with a number of autoinflammatory and autoimmune diseases. The importance of IFN-γ in the immune system stems in part from its ability to inhibit viral replication directly, and most importantly from its immunostimulatory and immunomodulatory effects. IFN-γ is produced predominantly by natural killer cells (NK) and natural killer T cells (NKT) as part of the innate immune response, and by CD4 Th1 and CD8 cytotoxic T lymphocyte (CTL) effector T cells once antigen-specific immunity develops as part of the adaptive immune response.
Tag	C-His&Flag

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

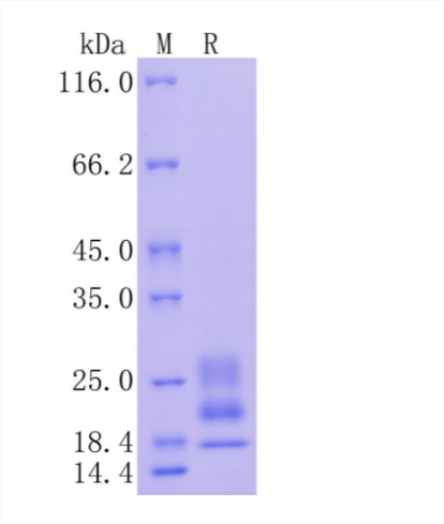
Molecular Mass	18.2 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

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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Protein on SDS-PAGE under reducing (R) condition.



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