

Rat IFN-gamma, C-His, Flag Tag Protein

HA210577



Product name:	Rat IFN-gamma, C-His, Flag Tag
Species reactivity:	Rat
Bio-Activity:	Testing in progress.
Protein construction description:	A DNA sequence encoding the rat IFN-gamma protein (P01581) (Gln 23-Cys 156) was expressed with both His, Flag tag at the C-terminus.

Background: 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.

Purity:	>95% as determined by SDS-PAGE.
Endotoxin:	Less than 1.0 EU per μ g by the LAL method.
Fragment region:	IFN-gamma (23-156)
Source:	HEK293
Accession:	P01581
Predicted molecular mass:	18.2 kD
Formulation:	Lyophilized from a 0.2 μ m filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution:	Reconstitute at 250 μ g/ml in sterile water.
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 $^{\circ}$ C to -80 $^{\circ}$ C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

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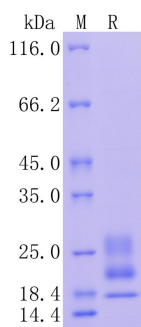


Fig1: Protein on SDS-PAGE under reducing (R) condition.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".