

Recombinant Rat Interferon γ /IFNG Protein (Fc Tag)

Catalog Number: PKSR030428

Note: Centrifuge before opening to ensure complete recovery of vial contents.

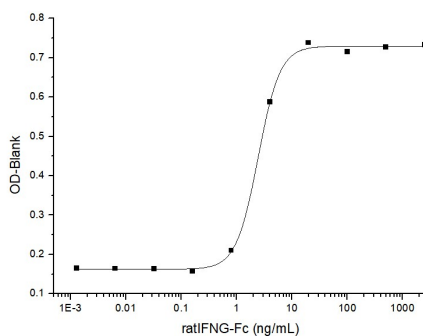
Description

Species	Rat
Source	HEK293 Cells-derived Rat Interferon γ /IFNG protein Val 117-Ser 268, with an C-terminal hFc
Calculated MW	42.5 kDa
Observed MW	52 kDa
Accession	P01581
Bio-activity	1. Measured in antiviral assay using L929 cells infected with vesicular stomatitisvirus (VSV). The ED ₅₀ for this effect is typically 1-5 ng/mL. 2. Immobilized rat IFNG-Fc at 10 μ g/ml (100 μ l/well) can bind biotinylated rat IFNGR-Fc. The EC ₅₀ of biotinylated rat IFNGR-Fc is 20.1-46.9 ng/ml.

Properties

Purity	> 92 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



Measured in antiviral assay using L929 cells infected with vesicular stomatitisvirus (VSV). The ED₅₀ for this effect is typically 1-5 ng/mL.

Background

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IFN gamma, also known as IFNG, is a secreted protein which belongs to the type I interferon family. IFN gamma is produced predominantly by natural killer and natural killer T cells as part of the innate immune response, and by CD4 and CD8 cytotoxic T lymphocyte effector T cells once antigen-specific immunity develops. IFN gamma has antiviral, immunoregulatory, and anti-tumor properties. IFNG, in addition to having antiviral activity, has important immunoregulatory functions, it is a potent activator of macrophages, and has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons. The IFNG monomer consists of a core of six α -helices and an extended unfolded sequence in the C-terminal region. IFN gamma is critical for innate and adaptive immunity against viral and intracellular bacterial infections and for tumor control. Aberrant IFN gamma expression is associated with a number of autoinflammatory and autoimmune diseases. The importance of IFN gamma in the immune system stems in part from its ability to inhibit viral replication directly, and most importantly from its immunostimulatory and immunomodulatory effects. IFNG also promotes NK cell activity.

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