

Datasheet for ABIN6699982

IFNG1-2 Protein

2 Images



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Overview

Quantity:	100 µg
Target:	IFNG1-2
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Rat Interferon gamma Recombinant Protein
Purification:	Interferon gamma purity was determined to be greater than 95% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined in a viral challenge assay using EMC virus on L929 and is typically less than 0.1 ng/mL.

Target Details

Target:	IFNG1-2
Alternative Name:	INF gamma (IFNG1-2 Products)
Background:	Synonyms: Type II interferon, T cell interferon, Immune Interferon, MAF Background: Interferon gamma, IFN γ , is a major immune-modulating molecule produced

Target Details

mainly by T cells and natural killer cells activated by antigens, mitogens or alloantigens. Most immune cells express IFN γ receptors and respond to IFN γ -induced signaling by up-regulating MHC class I expression. Recombinant rat IFN γ is a non-glycosylated protein, containing 135 amino acids, with a molecular weight of 15.6 kDa.

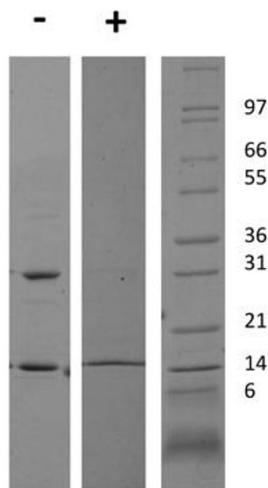
UniProt: [P01581](#)

Application Details

Application Notes:	Other: User Optimized Application_Note: Interferon-gamma Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Interferon-gamma in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

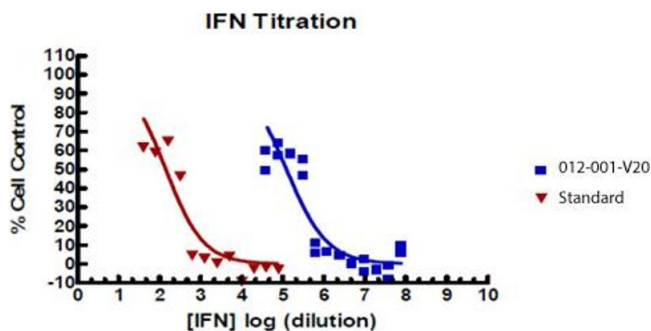
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 100 μ L
Buffer:	Lyophilized in 10 mM sodium phosphate, 100 mM sodium chloride, pH 7.5.
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months



SDS-PAGE

Image 1. SDS-PAGE of Rat Interferon gamma Recombinant Protein. Lane 1: 1 µg Rat IFN gamma in non-reducing conditions. Lane 2: 1 µg Rat IFN gamma in reducing conditions (+). Lane 3: Molecular weight marker. Rat IFN gamma has a predicted MW of 15.6 kDa.



SDS-PAGE

Image 2. SDS-PAGE of Rat Interferon gamma Recombinant Protein. The specific activity, as determined in a viral challenge assay using EMC virus on L929 cells, is $8 \times 10^6 - 1.9 \times 10^7$ Units/mg. The corresponding ED50 is 0.125-0.05 ng/ml. This value lies within the expected range of less than 0.1 ng/ml, corresponding to a specific activity of greater than 1×10^7 units/mg.