

Datasheet for ABIN2018002

Interferon gamma Protein (IFNG) (AA 23-156)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	Interferon gamma (IFNG)
Protein Characteristics:	AA 23-156
Origin:	Rat
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 2.5 ng/mL, measured by cytotoxicity assay using WEHI-279 cells, corresponding to a specific activity of > 4x10 ⁵ units/mg.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	Interferon gamma (IFNG)
Alternative Name:	Interferon-gamma (IFN-Gamma) (IFNG Products)
Background:	Interferon-gamma (IFN-gamma), also known as Type II interferon or immune interferon, is a cytokine produced primarily by T-lymphocytes and natural killer cells. The active form of IFN-gamma is an antiparallel dimer that interacts with the receptor IFN-gamma R1 and sets off IFN-gamma/JAK/STAT pathway. IFN-gamma signaling does diverse biological functions primarily

Target Details

related to host defense and immune regulation, including antiviral and antibacterial defense, apoptosis, inflammation, and innate and acquired immunity. While IFN-gamma induced inflammatory cascade summons a variety of immune-related cell types, such as macrophages, natural killer (NK) cells and cytotoxic T lymphocytes (CTLs), IFN-gamma is also implicated in resistance to NK cell and CTL responses and in immune escape in a variety of cancers.

Synonyms: Immune Interferon, type II interferon, T cell interferon, MAF

Molecular Weight: 15-25 kDa, observed by non-reducing SDS-PAGE.

UniProt: [P01581](#)

Pathways: [Interferon-gamma Pathway](#), [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [ER-Nucleus Signaling](#), [Regulation of Carbohydrate Metabolic Process](#), [Protein targeting to Nucleus](#), [Autophagy](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant Rat Interferon gamma (IFN-gamma) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rrIFN-gamma should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Expiry Date: 6 months