PRODUCT DATA SHEET

Bioworld Technology,Inc.

Recombinant IFN-γ, Rat (CHO-expressed)

Catalog Number: BK0224-50μg Source: CHO Quantity: 50μg

Description:

Interferon-γ (IFN-γ), 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-γ is an antiparallel dimer that interacts with the receptor IFN-γR1 and sets off IFN-γ/JAK/STAT pathway. IFN-γ signaling does diverse biological functions primarily related to host defense and immune regulation, including antiviral and antibacterial defense, apoptosis, inflammation, and innate and acquired immunity. While IFN-γ–induced inflammatory cascade summons a variety of immune-related cell types, such as macrophages, natural killer (NK) cells and cytotoxic T lymphocytes (CTLs), IFN-γ is also implicated in resistance to NK cell and CTL responses and in immune escape in a variety of cancers.

Molecular Weight:

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

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

ED50 < 2.5 ng/ml, measured by cytotoxicity assay using WEHI-279 cells, corresponding to a specific activity of > 4×10ˆ5 units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

QGTLIESLESLKNYFNSSSMDAMEGKSLLLDI-WRNWQKDGNTKILESQIISFYLRLFE-VLKDNQAISNNISVIESHLITNFFSN-SKAKKDAFMSIAKFEVNNPQIQHKAVNELIRVI-HQLSPESSLRKRKRSRC

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 μg/ml.

Storage:

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

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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