

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IFN- γ , Rat (CHO-expressed)

Catalog Number: BK0224-1mg

Source: CHO

Quantity: 1mg

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- γ R1 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 \times 10⁵ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

QGTLESLES LKNYFNSSSMDAMEGKSLLLDI-
WRNWQKDGNTKILESQIISFYLRRLF-
VLKDNQAISNNISVIESHLITNFFSN-
SKAKKDAFMSIAKFEVNNPQIQHKAVNELIRVI-
HQLSPESSLRKRKR SRC

Endotoxin:

< 0.2 EU/ μ g, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Storage:

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

Usage:

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