PRODUCT DATA SHEET



Bioworld Technology,Inc.

Recombinant IFN-γ, Mouse

Catalog Number: BK0081-1mg Source: Escherichia coli. Quantity: 1mg

Description:

Sharing 41% sequence identity with human Interferon gamma (hIFN--γ), mouse IFN gamma (mIFN--γ)is a macrophage-activating factor. The active form of IFN--γ is an antiparallel dimer that 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--y-induced inflammatory cascade summons a variety of immune-related cell types, such as macrophages, natural killer (NK) cells and cytotoxic T lymphocytes (CTLs), IFN--y is also implicated in resistance to NK cell and CTL responses and in immune escape in avariety of cancers.Recombinant mouse IFN gamma (rmIFN-y) produced in E.coli is a non-glycosylated polypeptide chain of 134 amino acids. A fully biologically active molecule, rmIFN--y has a molecular mass of 15 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary refolding and chromatographic techniques at GenScript.

Molecular Weight:

15 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by reducing SDS-PAGE.

Biological Activity:

ED50<0.15ng/ml, measured by cytotoxicity assay using WEHI-279 cells.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MHGTVIESLESLNNYFNSSGIDVEEKSLFLDI-WRNWQKDGDMKILQSQIISFYLRLFE-VLKDNQAISNNISVIESHLITTFFSN-SKAKKDAFMSIAKFEVNNPQVQRQAFNELIR-VVHQLLPESSLRKRKRSRC

Endotoxin:

<1 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 µg/ml.

Storage:

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

Usage:

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