

Rev03
Update: Dec,14,2021

DATASHEET

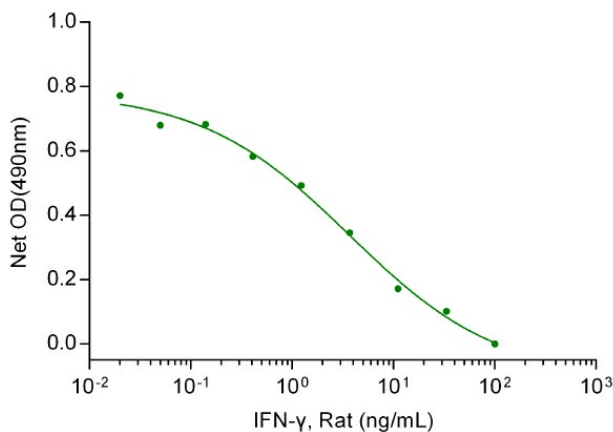
IFN- γ , Rat (CHO-expressed)

Cat. No.: Z02982

Product Introduction

Species	Rat
Protein Construction	IFN- γ (Glu23-Cys156) Accession # P01581
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 0.2 EU/ μ g of protein by gel clotting method
Biological Activity	ED ₅₀ < 2.5 ng/ml, measured by cytotoxicity assay using WEHI-279 cells, corresponding to a specific activity of > 4.0 \times 10 ⁵ units/mg.
Expression System	CHO
Apparent Molecular Weight	15~25 kDa, on SDS-PAGE under non-reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μ g/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Examples



ED₅₀ < 2.5 ng/ml, measured by cytotoxicity assay using WEHI-279 cells, corresponding to a specific activity of > 4 × 10⁵ units/mg.

Background

Target Background : 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.

Synonyms : Immune Interferon; type II interferon; T cell interferon; MAF; IFNG; IFG; IFI; IFN-gamma

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.