Rev03
Update: Dec,14,2021

DATASHEET

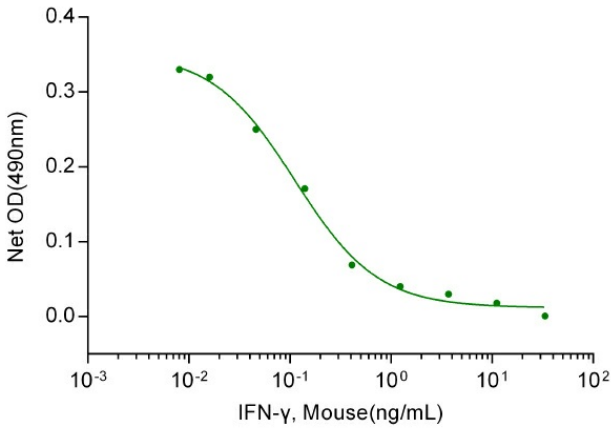
IFN-γ, Mouse

Cat. No.: Z02916

Product Introduction

Species	Mouse
Protein Construction	Expressed with an N-terminal Met. **IFN-γ (His23-Cys155) Accession # P01580**
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 1 EU/μg of protein by gel clotting method
Biological Activity	ED_{50} < 0.15 ng/ml, measured by cytotoxicity assay using WEHI-279 cells.
Expression System	E. coli
Apparent Molecular Weight	~15 kDa, on SDS-PAGE under 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_2O or PBS up to 100 μg/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



ED_{50}<0.15ng/ml, measured by cytotoxicity assay using WEHI-279 cells.

Background

Target Background : 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--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 avariety 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.