

Datasheet for ABIN2018007 Interferon gamma Protein (IFNG) (AA 23-155)





Overview

Quantity:	100 µg
Target:	Interferon gamma (IFNG)
Protein Characteristics:	AA 23-155
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Product Details	
Characteristics:	ED50<0.15 ng/mL, measured by cytotoxicity assay using WEHI-279 cells.
	AA 23-155, expressed with an N-terminal Met.
Purity:	> 95 % as analyzed by reducing SDS-PAGE.
Endotoxin Level:	< 1 EU/µg, determined by LAL method.
Target Details	
Target:	Interferon gamma (IFNG)
Alternative Name:	Interferon-gamma (IFN-Gamma) (IFNG Products)
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 IFNγ/JAK/STAT pathway. IFNγ signaling does diverse biological functions
	primarily related to host defense and immune regulation, including antiviral and antibacterial

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	defense, apoptosis, inflammation, and innate and acquired immunity.While IFNy-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.
	Recombinant mouse IFN gamma (rmIFN-γ) produced in E. coli is a non-glycosylated
	polypeptide chain of 134 amino acids. A fully biologically active molecule, rmIFN– γ has a
	molecular mass of 15 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary
	refolding and chromatographic techniques.
	Synonyms: Type II interferon, T cell interferon, MAF, IFNG, IFG, IFI
Molecular Weight:	15 kDa, observed by reducing SDS-PAGE.
UniProt:	P01580
Pathways:	Interferon-gamma Pathway, Cellular Response to Molecule of Bacterial Origin, Regulation of
	Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of
	Molecular Mediator of Immune Response, ER-Nucleus Signaling, Regulation of Carbohydrate
	Metabolic Process, Protein targeting to Nucleus, Autophagy

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O or PBS at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	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 1week at 4°C or up to 2 months at -20°C.
Expiry Date:	6 months



SDS-PAGE

Image 1. $2\mu g$ of IFN- γ , Mouse was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.

Activity Assay

Image 2. IFN- γ , Mouse induced cytotoxicity using WEHI-279 cells. The ED50 for this effect is less than 0.15 ng/mL

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