

Interferon Gamma Recombinant Protein | IFNG recombinant protein

Interferon Gamma Protein, Human, Recombinant

CATALOG # AAA257437	HOST CHO Stable Cells
-------------------------------	---------------------------------

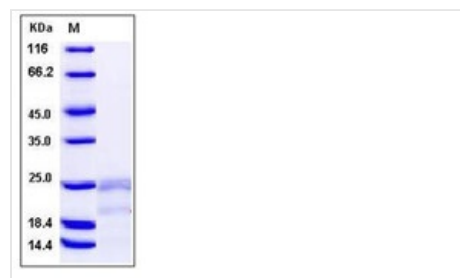
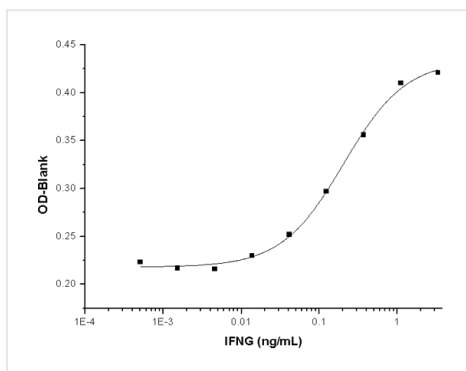
PRODUCT SYNONYMS

Interferon Gamma; Interferon Gamma Protein; Human; Recombinant; Human IFN-gamma/IFNG/gamma-IFN Protein; interferon; gamma; IFG Protein; IFI Protein; IFN gamma Protein; IFNG recombinant protein

PRODUCT SPECIFICATIONS

Host	CHO Stable Cells
Purity/Purification	>92 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4 Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	143aa
Sequence	Met1-Gln166
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Gln24
Protein Construction	JA DNA sequence encoding the human gamma-IFN (NP_000610.2) (Met 1-Gln 166) was expressed and purified
Activity	Measured in antiviral assays using WISH human amnion cells infected with vesicular stomatitis virus (VSV). The EC50 for this effect is typically 0.1-0.5ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack

IMAGES



Application Data

Application Data

Measured in antiviral assays using WISH human amnion cells infected with vesicular stomatitis virus (VSV). The EC50 for this effect is typically 0.1-0.5 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for IFNG recombinant protein	IFN gamma, also known as IFNG, is a secreted protein that belongs to the type II interferon family. IFN gamma is produced predominantly by natural killer and natural killer T cells as part of the innate immune response, and by CD4 and CD8 cytotoxic T lymphocyte effector T cells once antigen-specific immunity develops. IFN gamma has antiviral, immunoregulatory, and anti-tumor properties. IFNG, in addition to having antiviral activity, has important immunoregulatory functions, it is a potent activator of macrophages and has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons. The IFNG monomer consists of a core of six alpha-helices and an extended unfolded sequence in the C-terminal region. IFN gamma is critical for innate and adaptive immunity against viral and intracellular bacterial infections and tumor control. Aberrant IFN gamma expression is associated with some autoinflammatory and autoimmune diseases. The importance of IFN gamma in the immune system stems in part from its ability to inhibit viral replication directly, and most importantly from its immunostimulatory and immunomodulatory effects. IFNG also promotes NK cell activity.
Product Categories/Family for IFNG recombinant protein	Neuroinflammation; IL12 signaling pathway
References	Gray P W, et al. (1982) Structure of the human immune interferon gene. Nature. 298: 859-63. Taya Y, et al. (1982) Cloning and structure of the human immune interferon-gamma chromosomal gene. EMBO J. 1: 953-8. Goshima N, et al. (2008) Human protein factory for converting the transcriptome into an in vitro-expressed proteome. Nomura N Nat Methods. 5: 1011-7. Thiel DJ, et al. (2000) Observation of an unexpected third receptor molecule in the crystal structure of human interferon-gamma receptor complex. Structure. 8 (9): 927-36. Naylor SL, et al. (1983) Human immune interferon gene is located on chromosome 12. J Exp Med. 157 (3): 1020-7. Schoenborn JR, et al. (2007) Regulation of interferon-gamma during innate and adaptive immune responses. Adv Immunol. 96: 41-101.

NCBI AND UNIPROT INFORMATION

NCBI GI #	56786138
NCBI GeneID	3458
NCBI Accession #	NP_000610.2
NCBI GenBank Nucleotide #	NM_000619.2
UniProt Accession #	P01579; Q53ZV4; B5BU88
Molecular Weight	19,348 Da
NCBI Official Full Name	interferon gamma
NCBI Official Synonym Full Names	interferon, gamma
NCBI Official Symbol	IFNG
NCBI Official Synonym Symbols	IFG; IFI
NCBI Protein Information	interferon gamma; IFN-gamma; immune interferon
UniProt Protein Name	Interferon gamma
UniProt Gene Name	IFNG
UniProt Synonym Gene Names	IFN-gamma
UniProt Entry Name	IFNG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.