

IFNG

Recombinant Human IFN-gamma

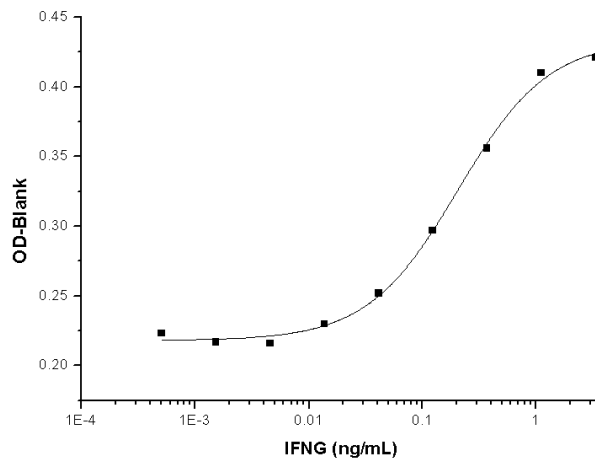
Catalog No.	CRH648A CRH648B CRH648C	Quantity:	20 µg 100 µg 1.0 mg
Alternate Names:	Interferon gamma, IFN-gamma, Immune interferon		
Description:	<p>IFN gamma is a secreted protein which belongs to the type II interferon family. IFN gamma is produced predominantly by natural killer and natural killer 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, promotes NK cell activity, 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 α-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 for tumor control. Aberrant IFN gamma expression is associated with a number of 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.</p>		
UniProt ID:	P01579		
Accession Number:	NP_000610.2		
Protein Construction:	A DNA sequence encoding the human γ -IFN (Met 1-Gln 166) was expressed and purified.		
Source:	CHO Stable Cells		
Formulation:	<p>Lyophilized from sterile PBS, pH 7.4</p> <p>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.</p>		
Molecular Weight:	The secreted rhIFN-gamma consists of 143 amino acids with a predicted MW of 16.7 kDa. IFN-gamma migrates as two bands, 21 kDa & 25 kDa due to different glycosylation.		
Purity:	> 92 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	Measured in antiviral assays using WISH human amnion cells infected with vesicular stomatitis virus (VSV) . The EC50 for this effect is typically 0.1-0.5 ng/mL.		
Predicted N-terminal:	Gln 24		
Reconstitution:	<p>Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.</p> <p>DO NOT VORTEX. Allow several minutes for complete reconstitution</p>		



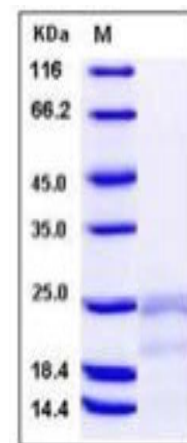
Storage & Stability:

Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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SDS-PAGE



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