

Human IFN gamma/IFNG Protein

Cat. No. IFN-HM00G

Description

Source	Recombinant Human IFN gamma/IFNG Protein is expressed from E.coli without tag. It contains Gln24-Gln166.
Accession	P01579
Molecular Weight	The protein has a predicted MW of 16.77 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

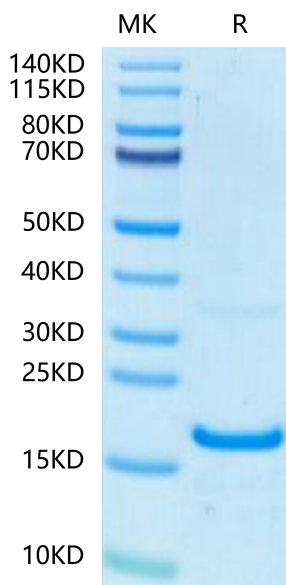
Formulation	Lyophilized from 0.22µm filtered solution in 50mM Tris (pH 8.0). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Interferon-gamma (IFN gamma) is a cytokine that plays physiologically important roles in promoting innate and adaptive immune responses. The absence of IFN gamma production or cellular responsiveness in humans and experimental animals significantly predisposes the host to microbial infection, a result that validates the physiologic importance of this cytokine in preventing infectious disease.

Assay Data

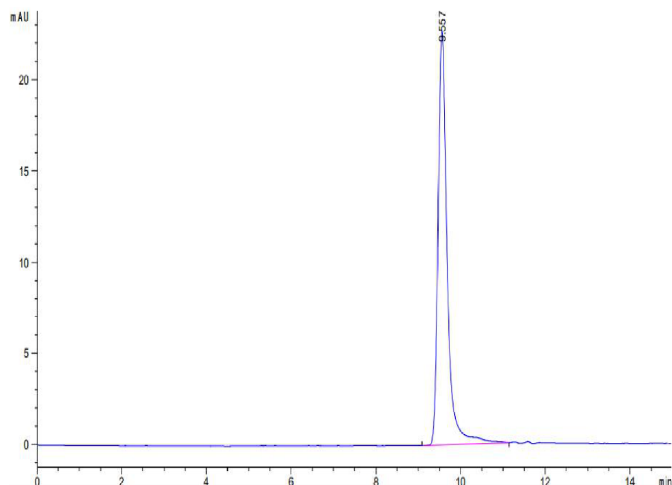
Bis-Tris PAGE



Human IFN gamma on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

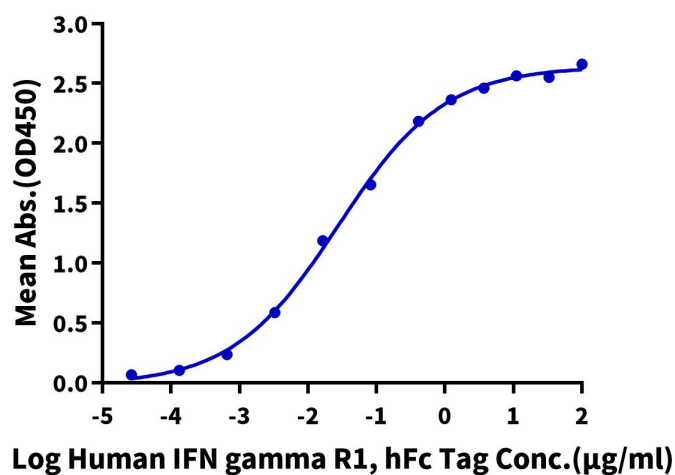


The purity of Human IFN gamma is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human IFN gamma, No Tag ELISA

0.2µg Human IFN gamma, No Tag Per Well



Immobilized Human IFN gamma, No Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human IFN gamma R1, hFc Tag with the EC50 of 27.6ng/ml determined by ELISA.