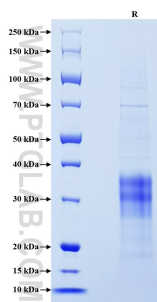


Recombinant Human IFN-gamma protein (Myc Tag, His Tag)

Catalog Number: Eg0004

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: Myc Tag, His Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <0.1 EU/ µg protein, LAL method</p> <p>Source: HEK293-derived Human IFN-gamma protein Gln24-Gly161 (Accession# P01579) with a Myc tag and a His tag at the C-terminus.</p> <p>GeneID: 3458</p> <p>Accession: P01579</p> <p>Predicted Molecular Mass: 21.2 kDa</p> <p>SDS-PAGE: 25-38 kDa, reducing (R) conditions</p> <p>Formulation: Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>Interferon gamma (IFN-γ) is a type II interferon that confers immunity to bacterial, viral and protozoan infections. In its active form, IFN-γ is a glycosylated, non-covalently linked homodimer of 29-32 kDa subunits. It is produced by a number of immune cell types, including natural killer cells, natural killer T cells and effector lymphocyte T cells, in response to antigenic and inflammatory stimuli. The IFN-γ dimer binds to its cognate receptor, which has two subunits: IFN-γ R1, the ligand binding chain (α chain), and IFN-γ R2, the signal transducing chain (β chain). Binding to the receptor activates the JAK/STAT pathway, which in turn activates IFN-γ responsive genes. While IFN-γ can inhibit viral replication, it also acts as an immunomodulator and immunostimulator by increasing the surface expression of class I MHC proteins.</p>		
References	<p>1. Billiau, Alfons et al. Cytokine & growth factor reviews vol. 20,2 (2009): 97-113.</p> <p>2. Tau, G et al. Allergy vol. 54,12 (1999): 1233-51.</p> <p>3. Ding, Huihui et al. Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie vol. 155, (2022): 113683.</p> <p>4. Cordeiro, Patrícia Azevedo Soares et al. Revista do Instituto de Medicina Tropical de São Paulo vol. 64, (2022): e64</p>		
Synonyms	IFNG, IFG, IFN gamma, IFN-γ, IFN γ		

Selected Validation Data



Purity of Recombinant Human IFN-gamma was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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