

IFNA4

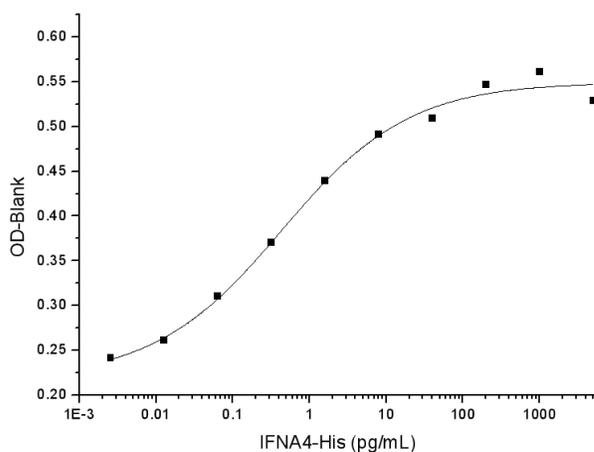
Recombinant Human Interferon alpha-4 (His Tag)

Catalog No.	CRH454A-His CRH454B-His CRH454D-His	Quantity:	20 µg 50 µg 100 µg
Alternate Names:	Interferon alpha-4, IFN-alpha-4, Interferon alpha-4B, Interferon alpha-76, Interferon alpha-M1		
Description:	Interferon, alpha 4 (IFNA4) belongs to the alpha/beta interferon family. Two variants of IFNA4 (IFNA4a and IFNA4b) are known, which differ from each other by changes in their coding regions at nucleotide positions 22 and 41 and can be distinguished by selective restriction enzyme analysis. Interferons are produced by macrophages, IFN-alpha have antiviral activities. Interferon stimulates the production of two enzymes: a protein kinase and an oligoadenylate synthetase. IFN-alpha, the first cytokine to be produced by recombinant DNA technology, has emerged as an important regulator of growth and differentiation, affecting cellular communication and signal transduction pathways as well as immunological control. Originally discovered as an antiviral substance, the efficacy of IFN-alpha in malignant, viral, immunological, angiogenic, inflammatory, and fibrotic diseases suggests a spectrum of interrelated pathophysiologies. IFN-alpha emerged as a prototypic tumor suppressor protein that represses the clinical tumorigenic phenotype in some malignancies capable of differentiation.		
UniProt ID:	P05014		
Accession Number:	NP_066546.1		
Protein Construction:	A DNA sequence encoding the human IFN α 4a (Met 1-Asp 189) was fused with a polyhistidine tag at the C-terminus.		
Source:	Baculovirus-Insect Cells		
Molecular Weight:	The recombinant human IFN α 4a consists of 176 amino acids and predicts a molecular mass of 20.7 kDa. It migrates as an approximately 20 kDa band in SDS-PAGE under reducing conditions.		
Formulation:	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Purity:	> 88 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg 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 ED50 for this effect is typically 2-8 pg/mL.		
Predicted N-terminal:	Cys 24		

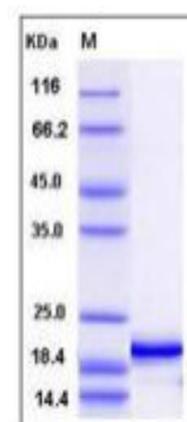
Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. **DO NOT VORTEX.** Allow several minutes for complete reconstitution.

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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