Biotinylated Cynomolgus IFN alpha/beta R1 Protein, Ultra Low Endotoxin

Cat. No. IFN-CM4R1B-UL

Description

Source	Recombinant Biotinylated Cynomolgus IFN alpha/beta R1 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus.
	It contains Ala25-Lys437.
Accession	A0A7N9D7J0
Molecular Weight	The protein has a predicted MW of 50.35 kDa. Due to glycosylation, the protein migrates to 75-105 kDa based on 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

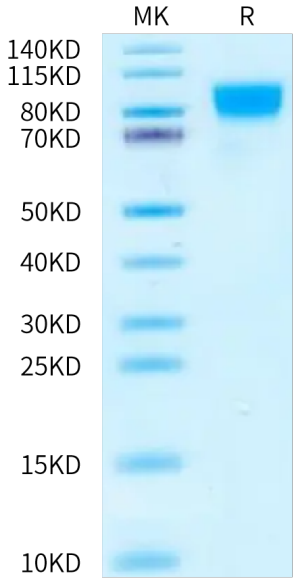
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

IFN-alpha / beta R1, also known as IFNAR1, belongs to the class II cytokine receptor family of proteins. Class II cytokine receptors form heterodimeric receptor complexes that mediate class II cytokine signals. Subunits of the different receptor complexes are shared and serve multiple functions.Functions in general as heterodimer with IFNAR2. Type I interferon binding activates the JAK-STAT signaling cascade, and triggers tyrosine phosphorylation of a number of proteins including JAKs, TYK2, STAT proteins and the IFNR alpha- and beta-subunits themselves.

Assay Data

Bis-Tris PAGE



Biotinylated Cynomolgus IFN alpha/beta R1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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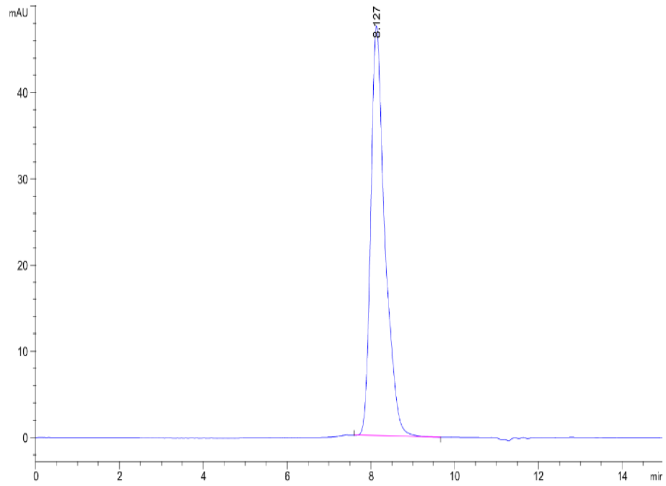
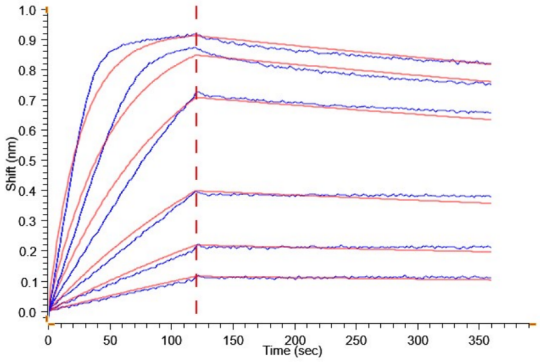
Assay Data



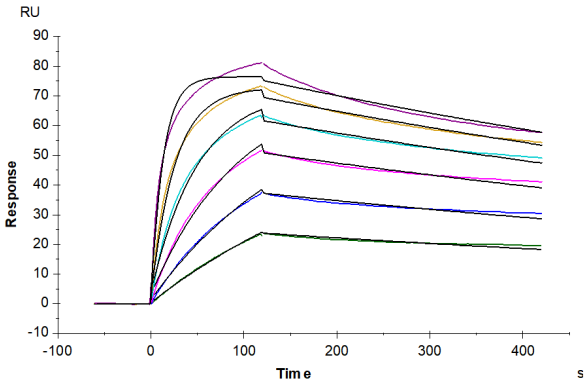
The purity of Biotinylated Cynomolgus IFN alpha/beta R1 is greater than 95% as determined by SEC-HPLC.

BLI Data



Loaded Biotinylated Cynomolgus IFN alpha/beta R1, His-Avi Tag on Streptavidin-Biosensor can bind Human IFN alpha 1, hFc Tag (Cat. IFN-HM2A1) with an affinity constant of 1.20 nM as determined in BLI assay .

SPR Data



Biotinylated Cynomolgus IFN alpha/beta R1, His-Avi Tag captured on CM5 Chip via Streptavidin can bind Human IFN alpha 1, hFc Tag (Cat. IFN-HM2A1) with an affinity constant of 1.16 nM as determined in SPR assay (Biacore T200).