

Biotinylated Human IFN alpha/beta R1 Protein

Cat. No. IFN-HM4R1B

Description

| | |
|-------------------------|--|
| Source | Recombinant Biotinylated Human IFN alpha/beta R1 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Lys28-Lys436. |
| Accession | P17181-1 |
| Molecular Weight | The protein has a predicted MW of 50.2 kDa. Due to glycosylation, the protein migrates to 75-100 kDa based on Tris-Bis PAGE result. |
| Endotoxin | Less than 1EU per µg by the LAL method. |
| Purity | > 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC |

Formulation and Storage

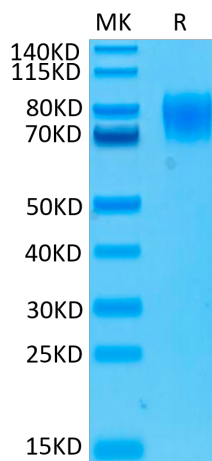
| | |
|-----------------------|---|
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state 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

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

Tris-Bis PAGE



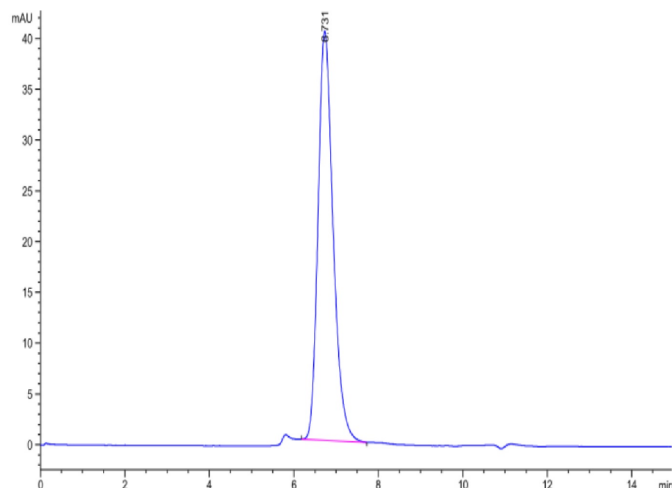
Biotinylated Human IFNAR1 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC

Biotinylated Human IFN alpha/beta R1 Protein

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Assay Data

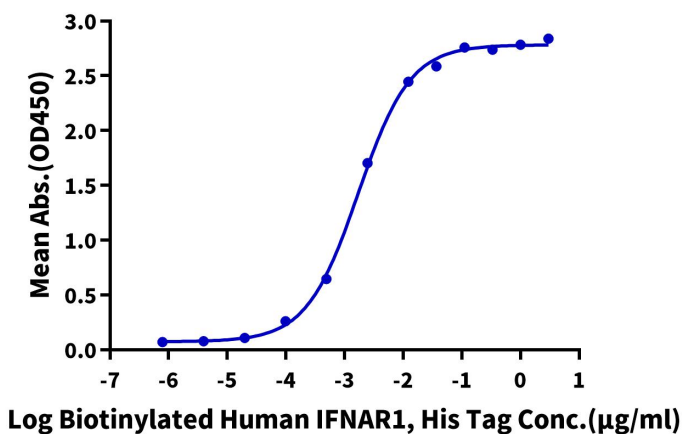


The purity of Biotinylated Human IFNAR1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human IFNAR1, His Tag ELISA

0.05g Anti-IFNAR1 Antibody, hFc Tag Per Well



Immobilized Anti-IFNAR1 Antibody, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IFNAR1, His Tag with the EC50 of 1.7ng/ml determined by ELISA.