

# Biotinylated Mouse IFN alpha/beta R1 Protein

Cat. No. IFN-MM4R1B

## Description

<b>Source</b>	Recombinant Biotinylated Mouse IFN alpha/beta R1 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Glu27-Thr429.
<b>Accession</b>	P33896
<b>Molecular Weight</b>	The protein has a predicted MW of 46.85 kDa. Due to glycosylation, the protein migrates to 65-75 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

## Formulation and Storage

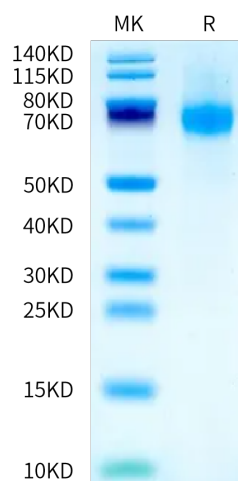
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-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

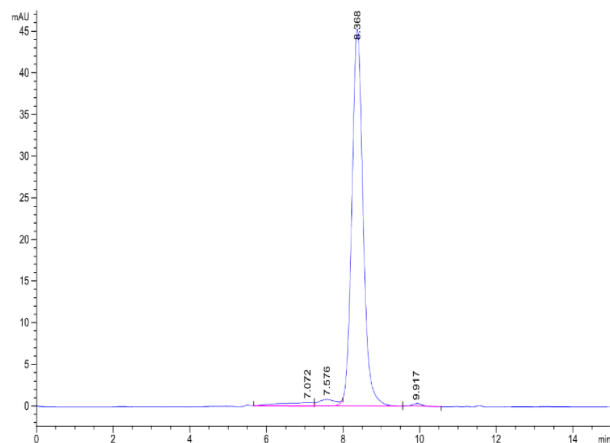
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data



The purity of Biotinylated Mouse IFN alpha/beta R1 is greater than 90% as determined by SEC-HPLC.

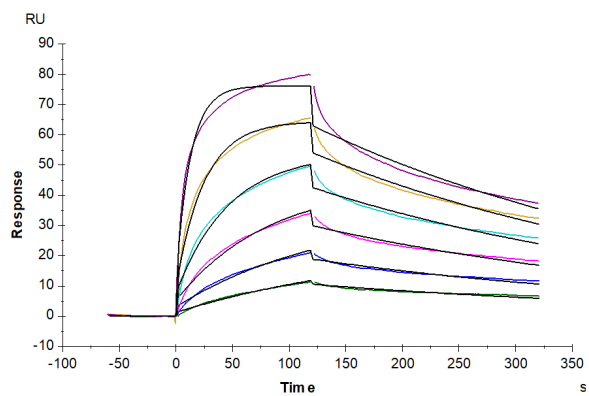
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## Assay Data

### SPR Data



Biotinylated Mouse IFN alpha/beta R1, His Tag captured on CM5 Chip via anti-his antibody can bind Human IFN alpha 1, hFc Tag with an affinity constant of 3.85 nM as determined in SPR assay (Biacore T200).