

Biotinylated Human IFN alpha/beta R2 Protein

Cat. No. IFN-HM140RB

Description

Source	Recombinant Biotinylated Human IFN alpha/beta R2 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Ile27-Lys243.
Accession	P48551-2
Molecular Weight	The protein has a predicted MW of 27.66 kDa. Due to glycosylation, the protein migrates to 42-52 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

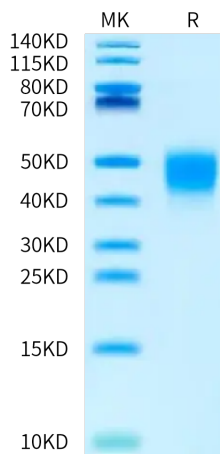
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled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

Although interferon (IFN)-α is known to exert immunomodulatory and antiproliferative effects on dendritic cells (DCs) through induction of protein-coding IFN-stimulated genes (ISGs), little is known about IFN-α-regulated miRNAs in DCs. Since several miRNAs are involved in regulating DC functions, it is important to investigate whether IFN-α's effects on DCs are mediated through miRNAs as well.

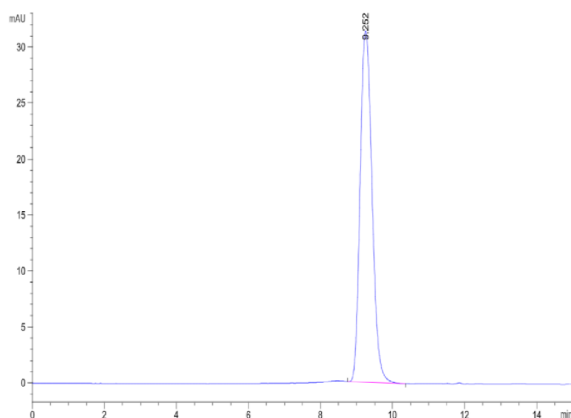
Assay Data

Tris-Bis PAGE



Biotinylated Human IFN alpha/beta R2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

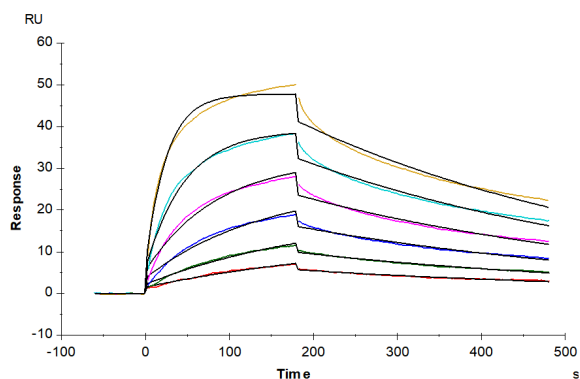
SEC-HPLC



The purity of Biotinylated Human IFN alpha/beta R2 is greater than 95% as determined by SEC-HPLC.

Assay Data

SPR Data



Biotinylated Human IFN alpha/beta R2, His-Avi Tag captured on CM5 Chip via anti-his antibody can bind Human IFN alpha 1, hFc Tag with an affinity constant of 24.2 nM as determined in SPR assay (Biacore T200).