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# IFNA1 Protein (AA 24-189) (Fc Tag)





#### Overview

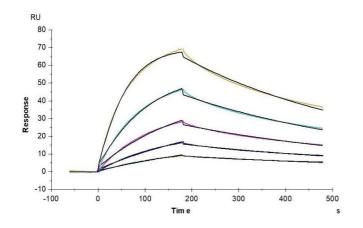
Quantity:	100 μg
Target:	IFNA1
Protein Characteristics:	AA 24-189
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IFNA1 protein is labelled with Fc Tag.

### **Product Details**

Purpose:	Human IFN alpha 1 Protein
Sequence:	Cys24-Glu189
Characteristics:	Recombinant Human IFN alpha 1 Protein is expressed from HEK293 with hFc tag at the C-Terminus.It contains Cys24-Glu189.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 0.12 $\mu M$ as determined in SPR assay (Biacore T200). See testing image for detail.

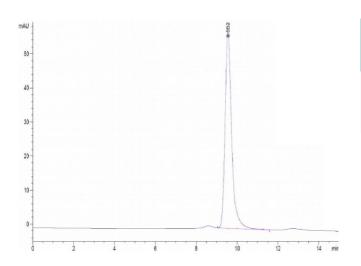
## **Target Details**

rarget Details		
Target:	IFNA1	
Alternative Name:	IFN alpha 1 (IFNA1 Products)	
Background:	IFN-α, a cytokine expressed in human islets from individuals affected by type 1 diabetes, plays a key role in the pathogenesis of diabetes by upregulating inflammation, endoplasmic reticulum (ER) stress and MHC class I overexpression, three hallmarks of islet histology in early type 1 diabetes.	
Molecular Weight:	46.14 kDa. Due to glycosylation, the protein migrates to 48-55 kDa based on Tris-Bis PAGE result.	
UniProt:	P01562	
Pathways:	JAK-STAT Signaling, Hepatitis C	
Application Details		
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/mL is recommended. Dissolve the lyophilized protein in distilled water.	
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.	
Storage:	-20 °C,-80 °C	
Storage Comment:	-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.	
Expiry Date:	12 months	



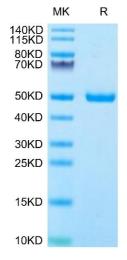
#### **Surface Plasmon Resonance**

Image 1. Human IFN alpha/beta R2, His Tag captured on CM5 Chip via anti-his antibody can bind Human IFN alpha 1, hFc Tag with an affinity constant of 11.90 nM as determined in SPR assay (Biacore T200).



# Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Human IFN-alpha 1 is greater than 95 % as determined by SEC-HPLC.



#### **SDS-PAGE**

 $\label{eq:mage 3.} \mbox{Human IFN-alpha 1 on Tris-Bis PAGE under} \\ \mbox{reduced condition. The purity is greater than 95 \% .} \\$ 

Please check the product details page for more images. Overall 4 images are available for ABIN7274845.