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## Datasheet for ABIN7274844 IFNA Protein (AA 27-243) (His tag)

3 Images



### Overview

Quantity:	100 µg
Target:	IFNA
Protein Characteristics:	AA 27-243
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IFNA protein is labelled with His tag.

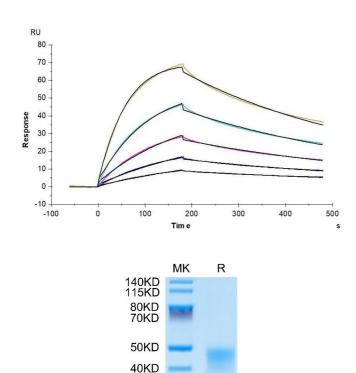
## Product Details

Purpose:	Human IFN alpha/beta R2 Protein
Sequence:	lle27-Lys243
Characteristics:	Recombinant Human IFN alpha/beta R2 Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Ile27-Lys243.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per $\mu$ g by the LAL method.
Biological Activity Comment:	The affinity constant of 11.90 nM as determined in SPR assay (Biacore T200). See testing image for detail.

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## Target Details

Target:	IFNA
Alternative Name:	IFN alpha (IFNA Products)
Background:	Although interferon (IFN)- $\alpha$ 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- $\alpha$ -regulated miRNAs in DCs. Since several miRNAs are involved in regulating DC functions, it is important to investigate whether IFN- $\alpha$ 's effects on DCs are mediated through miRNAs as well.
Molecular Weight:	25.8 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.
Pathways:	JAK-STAT Signaling, TLR Signaling, Hepatitis C, Inflammasome
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/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



30KD 25KD

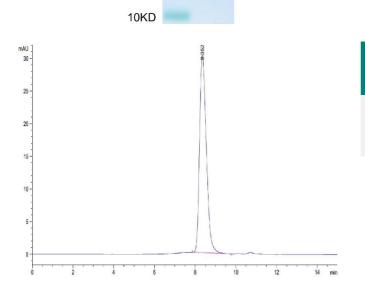
15KD

#### **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).

#### SDS-PAGE

**Image 2.** Human IFN alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



# Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 3.** The purity of Human IFN alpha is greater than 95 % as determined by SEC-HPLC.

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