Human IFN alpha 1 Protein

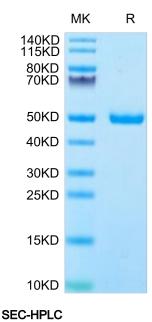
Cat. No. IFN-HM2A1

KVCJUS

Description	
Source	Recombinant Human IFN alpha 1 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Cys24-Glu189.
Accession	P01562
Molecular Weight	The protein has a predicted MW of 46.14 kDa. Due to glycosylation, the protein migrates to 48-55 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris 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	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
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.

Assay Data

Bis-Tris PAGE

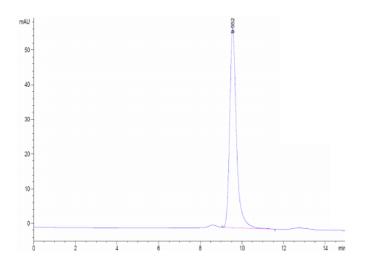


Human IFN alpha 1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

Human IFN alpha 1 Protein

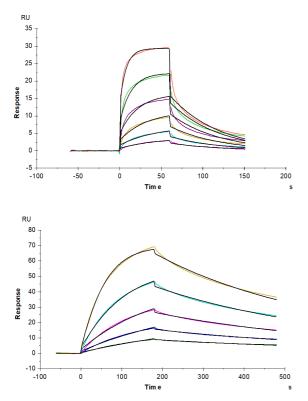
Cat. No. IFN-HM2A1

Assay Data



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





Human 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 0.12 μ M as determined in SPR assay (Biacore T200) (QC Test).

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) (QC Test).