

# Human Interferon omega-1 Protein

Cat. No. IFN-HM101

## Description

<b>Source</b>	Recombinant Human Interferon omega-1 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Leu22-Ser195.
<b>Accession</b>	P05000
<b>Molecular Weight</b>	The protein has a predicted MW of 21.25 kDa. Due to glycosylation, the protein migrates to 25-30 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

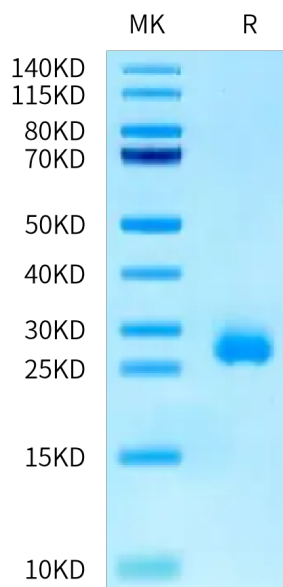
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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

Human Interferon omega-1, a type I IFN, also known as IFN- $\omega$ 1 or IFNW1, it contains a potential N-glycosylation site like human IFN- $\beta$ . IFN- $\omega$ 1 binds to the interferon alpha/beta receptor but not to the interferon gamma receptor. All IFN- $\omega$  genes analysed to date are devoid of introns. IFN- $\omega$ 1 has been shown to be well-tolerated in man and to induce reductions of hepatitis C virus RNA levels in a series of human clinical trials.

## Assay Data

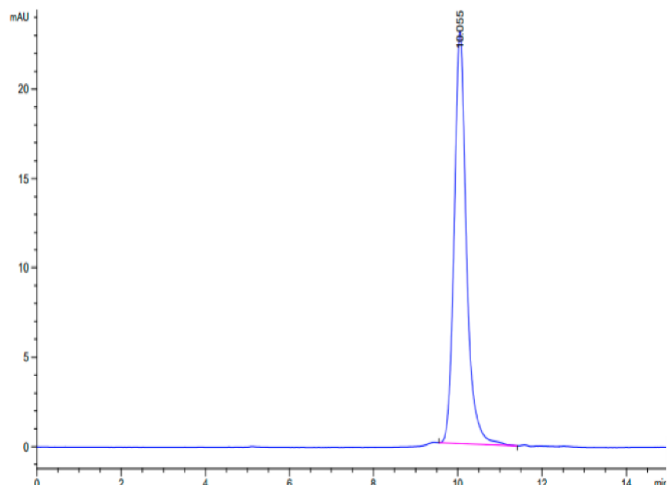
### Bis-Tris PAGE



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

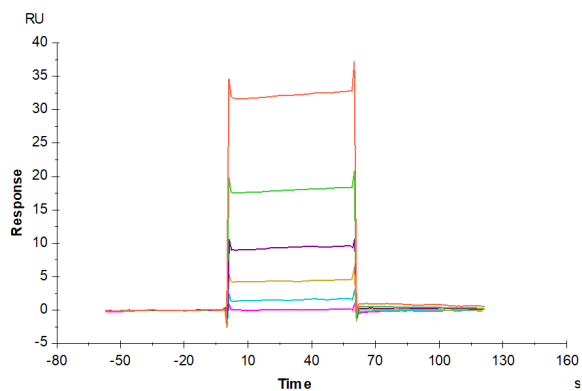
### SEC-HPLC

Assay Data



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

SPR Data



Human IFNAR1, His Tag immobilized on CM5 Chip can bind Human Interferon omega-1, His Tag with an affinity constant of 20.96  $\mu$ M as determined in SPR assay (Biacore T200).