

## General Information

### Gene Name Synonym

Interferon alpha-II-1

### Protein Construction

A DNA sequence encoding the human IFN $\omega$  (NP\_002168.1) (Cys 24-Ser 195) was fused with the Fc region of human IgG1 at the N-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured in antiviral assays using WISH human amnion cells infected with vesicular stomatitis virus (VSV). The EC<sub>50</sub> for this effect is 0.03-0.3 ng/mL.

### Purity

> 92 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu$ g of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Glu 20

### Molecular Mass

The recombinant human IFN $\omega$ /Fc chimera is a disulfide-linked homodimer. The reduced monomer comprises 409 amino acids with a predicted molecular mass of 46.6 kDa. As a result of glycosylation, rh IFN $\omega$ /Fc monomer migrates as an approximately 50 kDa band in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

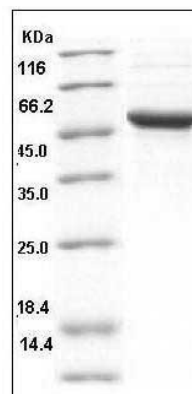
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human Interferon omega-1 / IFN $\omega$  / IFNW1 Protein (Fc Tag) SDS-PAGE