

## Recombinant Human IFN omega protein(His Tag)

**Catalog Number: PKSH034143**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human IFN omega protein Cys 24-Ser 195, with an C-terminal His
<b>Calculated MW</b>	20.9 kDa
<b>Observed MW</b>	20 kDa
<b>Accession</b>	P05000
<b>Bio-activity</b>	Measure by its ability to induce cytotoxicity in TF-1 cells. The ED <sub>50</sub> for this effect is <0.02 ng/mL. The specific activity of recombinant human IFN omega is approximately >5 x10 <sup>7</sup> IU/ mg.

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.1 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Background

Interferon omega-1 is also known as Interferon alpha-II-1 and IFNW1. It is a Secreted protein that in humans is encoded by the IFNW1 gene. IFNW1 belongs to the alpha/beta interferon family. Type I IFNs consist of IFN  $\alpha$ ,  $\beta$ ,  $\tau$ , and  $\omega$  and bind to the type I IFN receptor, whereas IFN- $\gamma$  is the only type II IFN and is specific for the type II IFN receptor. IFNW1 is a recently discovered protein structurally related to IFN-alpha and -beta. It has been shown that IFN-omega 1 similar to that of other human class I IFNs; potent antiviral activity was also observed on cells of bovine and ovine but not of equine or murine origin.