

RP01752

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# Recombinant Human Interferon omega-1/IFNW1 Protein

Catalog No.: RP01752 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	3467	P05000

**Tags**  
C-6His

**Synonyms**  
Interferon omega-1 ; IFNW1

## Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

**Endotoxin**  
< 0.1EU/μg

**Formulation**  
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

**Reconstitution**  
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Background

IFNs are a large family of proteins having antiviral, antiproliferative, and immunomodulatory effects, and are divided into two major classes, type I and type II, based on differences in receptor binding and nucleotide sequence. 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. Human IFN- $\omega$ , was identified by three independent groups in 1985 and is structurally related to IFN- $\alpha$  and - $\beta$ . Both human IFN- $\omega$  and IFN- $\alpha$  are produced by virally induced leukocytes and have similar antiviral activities on human cell lines, and a sizeable proportion (at least 1%) of the total antiviral activity of leukocyte IFN is contributed by IFN- $\omega$ . Also, it was reported that IFN- $\omega$  could inhibit the growth of human tumors in vivo.

## Basic Information

### Description

Recombinant Human Interferon omega-1/IFNW1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly23-Ser195) of human Interferon omega-1/IFNW1 (Accession #NP\_002168.1) fused with a 6×His tag at the C-terminus.

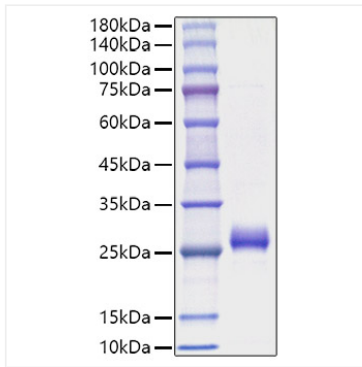
### Bio-Activity

Measured in a cell cytotoxicity assay using TF-1 cells. The ED<sub>50</sub> for this effect is 0.13-0.54 ng/mL.

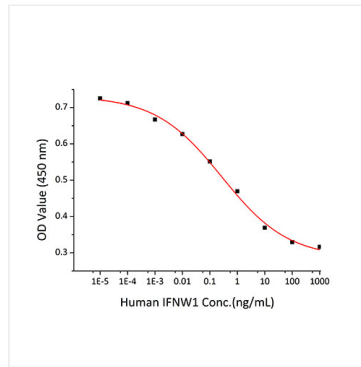
### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data



Recombinant Human Interferon omega-1/IFNW1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 22 kDa.



Measured in a cell cytotoxicity assay using TF-1 cells. The ED<sub>50</sub> for this effect is 0.13-0.54 ng/mL, corresponding to a specific activity of  $1.85 \times 10^6 \sim 7.69 \times 10^6$  units/mg.