

Recombinant Human Interferon omega-1/IFNW1 Protein

Catalog No.: RP01752 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 3467 P05000

Tags C-6His

Synonyms

Interferon omega-1 IFNW1

Product Information

Source Purification

HEK293 cells ≥ 95 % as determined by SDS-

PAGE.

Calculated MW Observed MW

20.88 kDa 25-30 kDa

Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$ of the protein by LAL method.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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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 α , β , τ , and ω and bind to the type I IFN receptor, whereas IFN- γ is the only type II IFN and is specific for the type II IFN receptor. Human IFN- ω , was identified by three independent groups in 1985 and is structurally related to IFN- α and - β . Both human IFN- ω and IFN- α 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- ω l. Also, it was reported that IFN- ω 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 $ED_{\scriptscriptstyle{50}}$ for this effect is 0.13-0.54 ng/mL.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

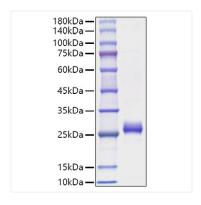
After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

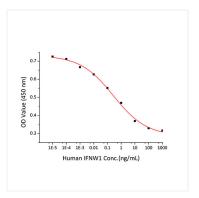
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human Interferon omega-1/IFNW1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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