

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	≥ 95 % as determined by SDS-PAGE.

Endotoxin

< 0.1 EU/μg 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 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

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 . 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 ED₅₀ 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.

Operational Notes

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

Storage

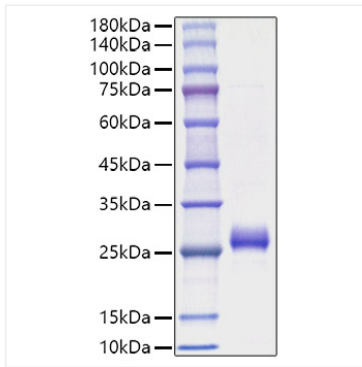
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

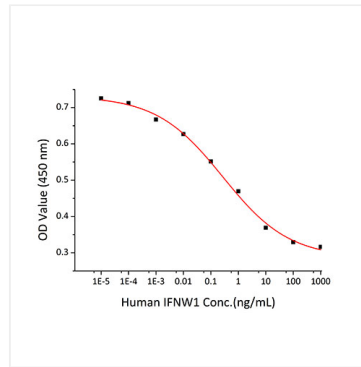
Avoid repeated freeze/thaw cycles.

* For your safety and health, please wear a lab coat and disposable gloves when 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 ED₅₀ 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.