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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
HEK293 cells

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

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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-ωI. Also, it was reported that IFN-ω could inhibit the growth of human tumors in vivo.

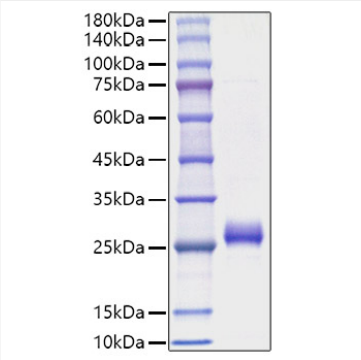
Basic Information

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.

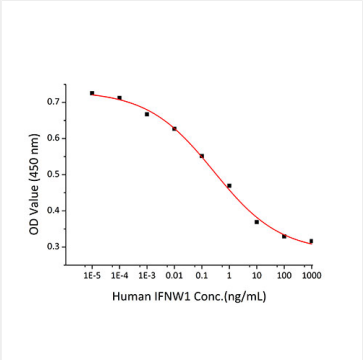
Bio-Activity
Measured in a cell cytotoxicity assay using TF-1 cells. The ED_{50} for this effect is 0.13-0.54 ng/mL.

Storage
Store the lyophilized protein at -20°C to -80°C for 12 months.
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_{50} for this effect is 0.13-0.54 ng/mL, corresponding to a specific activity of 1.85×10^6~7.69×10^6 units/mg.