

Recombinant Human Interferon omega-1/IFNW1 Protein

Catalog No.: RP01752

Sequence Information

Species	Gene ID
Human	3467
Swiss Prot	Tags
P05000	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 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.

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.

Activity

Measured in a cell cytotoxicity assay using TF-1 cells. The ED₅₀ for this effect is 0.13-0.54 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

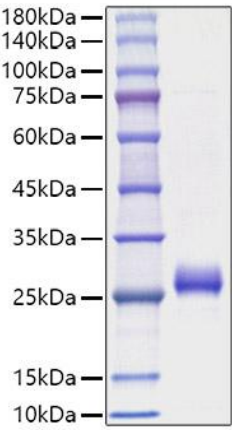
Operational Notes

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

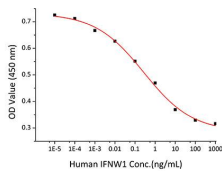
Contact

		400-999-6126
		cn.market@abclonal.com.cn
		www.abclonal.com.cn

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 × 10⁶~7.69× 10⁶ units/mg.