

Recombinant Human IFN- α 10 Protein

Catalog No.: RP01919

Sequence Information

Species Gene ID

Human 3446

Swiss Prot Tags

P01566 C-His

Synonyms

IFNA10; IFN- α 10; IFN α C;
IFN- α C; IFN- α 10; IFN- α C;
interferon α -10;
Interferon α -6L; Interferon
 α -C; interferon, α 10; LeIF
C; MGC119878; MGC119879

Product Information

Source Purification

HEK293 cells $\geq$ 90% as
determined by
SDS-PAGE.

Calculated MW Observed MW

20.25 kDa 20–25 kDa

Endotoxin

< 1 EU/ μ g of the protein by LAL
method.

Formulation

Lyophilized from a 0.22 μ m 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

Interferons (IFN) are a family of cytokines with potent anti-viral, antiproliferative and immunomodulatory properties, classified based on their binding specificity to cell surface receptors. Human IFNA2 was originally cloned in the early '80s and now more than a dozen closely related IFN α subtypes have been identified in both the human and mouse genome, each sharing about 80% amino acid (aa) sequence homology. Structurally, type I IFNs belong to the class of five helical-bundle cytokines, with the IFNA subtypes containing 2 conserved disulfide bonds. Mature human IFNA10 shares 61% aa sequence identity with mouse IFNA7. The type I IFNs bind to the interferon α receptor (IFNAR), which consists of two subunits: IFNAR1 (α -subunit) and IFNAR2 (β -subunit). Individual IFNA subtypes are known to display unique efficacies to viral protection, and IFNA10 has been shown to be a strong inducer of IFN-stimulated genes and anti-viral protection. Additionally, IFNA10 exhibits weak anti-viral effects against SARS-CoV-2.

Basic Information

Description

Recombinant Human IFN- α 10 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Cys24–Asp189) of Human IFN- α 10/IFNA10 (Accession #NP_002162.1) fused with His tag at the C-terminus.

Activity

Measured in a cell cytotoxicity assay using TF-1 cells. The ED₅₀ for this effect is 0.26–1.04 ng/mL, corresponding to a specific activity of $9.62 \times 10^5 \sim 3.85 \times 10^6$ units/mg.

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.

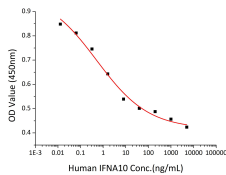
Contact

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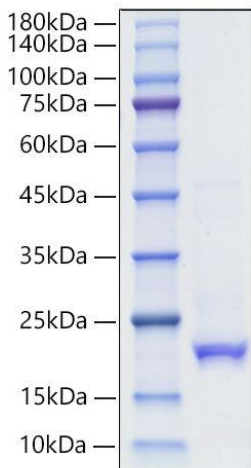
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Validation Data



Recombinant Human IFN-alpha 10/IFNA10 was measured in a cell cytotoxicity assay using TF-1 cells. The ED_{50} for this effect is 0.26~1.04 ng/mL, corresponding to a specific activity of $9.62 \times 10^5 \sim 3.85 \times 10^6$ units/mg.



Recombinant Human IFN-alpha 10 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.