

Recombinant Human IFN-alpha H2/IFNA14 Protein

Catalog No.: RP01897 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3448	P01570

Tags

C-His

Synonyms

Interferon alpha-14; IFN-alpha-14;
Interferon alpha-H; LeIF H; Interferon
lambda-2-H/IFNA14

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

<0.01EU/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

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Background

Interferons (IFN) are a family of cytokines with potent antiviral, 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 alpha 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. The extracellular domain (ECD) of mature human IFNA14, shares 58% aa sequence identity with mouse IFNA14. The type I IFNs bind to the interferon alpha receptor (IFNAR), which consists of two subunits: IFNAR1 (alpha subunit) and IFNAR2 (beta-subunit). Individual IFNA subtypes are known to display unique efficacies to viral protection, and IFNA14 has been shown to be a strong inducer of IFN-stimulated genes and anti-viral protection. IFNA14 has been shown to be potent against HIV-1 by up-regulating the transcription of two intrinsic restriction factors with well-established anti-HIV-1 activity, MX2 and tetherin.

Basic Information

Description

Recombinant Human IFN-alpha H2/IFNA14 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Cys24-Asp189) of Human IFN-alpha H2/IFNA14 (Accession #NP_002163.2) fused with a His tag at the C-terminus.

Bio-Activity

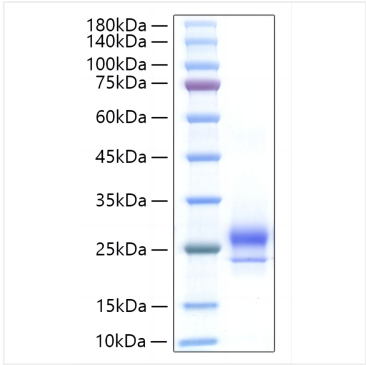
Storage

Store the lyophilized protein at -20°C to -80°C for long term.

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 IFN-alpha H2/IFNA14 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-30 kDa.