

Recombinant Human IFN-B

Catalog # PBG10162

Specification

Recombinant Human IFN-B - Product Information

Recombinant Human IFN-β - Additional Information

Description

Proteins of this family play an important role in inducing non-specific resistance against a broad range of viral infections. They also affect cell proliferation and modulate immune responses. Produced by peripheral blood leukocytes and lymphoblastoid cells, IFN α is an acid stable molecule that signals through IFN $\alpha/\beta R$, which is also used by IFN β . Both IFNs have similar anti-viral activity and regulate expression of MHC class I antigens. IFN α contains four highly conserved cysteine residues which form two disulfide bonds, one of which is necessary for biological activity. Recombinant human IFN β is an 20.0 kDa protein containing 166 amino acid residues. Due to glycosylation, IFN β has an approximate MW of 22.3 kDa based on SDS-PAGE gel and Mass Spectrometry.

BiologicalActivity

Assay #1:Measured by its ability to induce apoptosis in HeLa cells. The expected ED₅₀ for this effect is 20-30 ng/ml.
 Assay #2: Determined by its ability to stimulate the proliferation of human TF-1 cells. The expected ED₅₀ is \le 0.1 ng/ml, corresponding to a specific activity of \ge 1 x 10⁷ units/mg.

Authenticity

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin

Endotoxin level is $<0.1 \text{ ng}/\mu\text{g}$ of protein ($<1\text{EU}/\mu\text{g}$).

Protein Content

Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage

-20°C

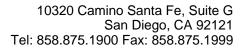
Precautions

Recombinant Human IFN- β is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human IFN-β - Protocols

Provided below are standard protocols that you may find useful for product applications.

Western Blot





- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Recombinant Human IFN-β - Images