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Recombinant Human IFN-beta

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-alpha is an acid stable molecule that signals through IFN-alpha/betaR, which is also used by IFN-beta. Both IFNs have similar anti-viral activity and regulate expression of MHC class I antigens. IFN-alpha contains four highly conserved cysteine residues which form two disulfide bonds, one of which is necessary for biological activity. Recombinant human IFN-beta is a 20.0 kDa protein containing 166 amino acid residues. Due to glycosylation, IFN-beta has an approximate MW of 22.3 kDa based on SDS-PAGE gel and Mass Spectrometry.

Source:	CHO cells
Molecular Weight:	22.3 kDa
Purity:	> 95% by SDS-PAGE and HPLC analysis
Endotoxin level:	< 0.1 ng per µg of IFN-beta
Stabilizer:	none
Formulation:	lyophilized

Biological Activity: The biological activity of human IFN-beta was based on analysis using the WISH cell line with VSV as the challenge virus. The specific activity was determined to be > 5 x 10⁸ units/mg

Reconstitution: The human IFN-beta should be reconstituted in water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted in water or other buffer solutions or stored at -20°C.

Stability: The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted IFN-beta is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. **Avoid repeated freeze-thaw cycles.**

Usage: Human IFN-beta offered for research use. Not for drug use. **Not for human use.**

Catalogue number: 100-191

Size: 20 µg

****please note: always centrifuge product before opening Vial.****