



Synonym(s): Interferon alfacon-1, INN, USAN. Infergen

CAS Registry Number: 118390-30-0

Molecular Formula: C₈₇₀H₁₃₆₆N₂₃₆O₂₅₉S₉

Molecular Weight: 19564.381

Accurate Mass: 19551.846029

Percentage Composition: C 53.41%; H 7.04%; N 16.90%; O 21.18%; S 1.48%

Biological Use/Importance: Antiviral agent used in the treatment of hepatitis B and C; biological response modifier

Other: Amgen. Inc

>>Variant: Interferon β

Synonym(s): Fiblaferon. IFN-β1. Fibroblast interferon (obsol.). **Interferon Beta**, BAN, INN, JAN

CAS Registry Number: 74899-71-1

Biological Source: Isol. from fibroblasts

Biological Use/Importance: Immunomodulating agent; used in treatment of keratitis and hepatitis B

>>Derivative: Beta 1a

Synonym(s): Interferon Beta 1a, BAN, INN, USAN. Avonex. Neoferon. Rebif

CAS Registry Number: 145258-61-3

Molecular Formula: C₉₀₈H₁₄₀₆N₂₄₆O₂₅₂S₇

Molecular Weight: 20025.05

Accurate Mass: 20012.281224

Percentage Composition: C 54.46%; H 7.08%; N 17.21%; O 20.13%; S 1.12%

Biological Use/Importance: Antineoplastic agent. Biological response modifier. Used in the treatment of multiple sclerosis

Development Status: Marketed drug. Launched 1996 (US) (Biogen). Worldwide 58th best selling prescription drug (\$0.76 bn) (Biogen) (2000, Pharma Business)

>>Derivative: Beta 1b

Synonym(s): Interferon Beta-1b, BAN, INN, USAN. 17-L-Serine-2-166-interferon β1 (human fibroblast reduced). Beneseron. Betaferon. Betaseron

CAS Registry Number: 145155-23-3

Molecular Formula: C₉₀₃H₁₃₉₉N₂₄₅O₂₅₂S₅

Molecular Weight: 19879.805

Accurate Mass: 19867.279235

Percentage Composition: C 54.56%; H 7.09%; N 17.26%; O 20.28%; S 0.81%

Source/Synthesis: Non-glycosylated polypeptide produced by *E. coli*

Biological Use/Importance: Immunomodulator used in the treatment of multiple sclerosis

Development Status: Marketed drug. Launched 1993 (US). Worldwide 92nd best selling prescription drug (\$0.55 bn) (Schering AG) (2000, PharmaBusiness)

>>Variant: Interferon γ

Synonym(s): IFN-γ. MAF. Immune interferon. **Interferon Gamma**, BAN, INN. Polyferon

Biological Source: Isol. from lymphocytes

Biological Use/Importance: Immunomodulating agent used to treat arthritis. Shows antineoplastic activity

Development Status: Launched 1989

>>Derivative: Gamma 1a

Synonym(s): Interferon Gamma-1a, BAN, INN, JAN. Biogamma. Immuneron

CAS Registry Number: 98059-18-8

Molecular Formula: C₇₆₁H₁₂₀₆N₂₁₄O₂₂₅S₆

Molecular Weight: 17145.59

Accurate Mass: 17134.783081

Percentage Composition: C 53.31%; H 7.09%; N 17.48%; O 21.00%; S 1.12%

Biological Source: Prod. from *E. coli* genetically modified by recombinant DNA technology

Biological Use/Importance: Antineoplastic agent for treatment of cutaneous T-cell lymphoma

Development Status: Launched 1992 (Japan)

>>Derivative: Gamma 1b

Synonym(s): Interferon Gamma-1b, BAN, INN, USAN. Actimmune