



---

>>Entry Name: Filgrastim, BAN, INN, USAN

Synonym(s): *N*-(L-Methionyl)colony-stimulating factor (human clone 1034). Meograstim (recombinant). Gran. Granulokine. Grasin. Neupogen. G-CSF. KRN 8601

CAS Registry Number: 121181-53-1

Molecular Formula: C<sub>845</sub>H<sub>1339</sub>N<sub>223</sub>O<sub>243</sub>S<sub>9</sub>

Molecular Weight: 18798.815

Accurate Mass: 18786.676152

Percentage Composition: C 53.99%; H 7.18%; N 16.62%; O 20.68%; S 1.54%

General Statement: Single chain glycoprotein containing 175 amino acid residues

Biological Use/Importance: Recombinant human granulocyte colony stimulating factor; immunostimulant. Prevents chemotherapy-induced neutropenia

Development Status: Marketed drug. Launched 1991 (US). Worldwide 32nd best selling prescription drug (\$1.22 bn) (Amgen) (2000, Pharma Business)

#### References:

Nagata, S. *et al.*, *Nature (London)*, 1986, **319**, 415

Souza, L.M. *et al.*, *Science (Washington, D.C.)*, 1986, **232**, 61, (*isol*)

Gabrilove, J.L. *et al.*, *N. Engl. J. Med.*, 1988, **318**, 1414, (*use*)

Eguchi, K. *et al.*, *Cancer Res.*, 1989, **49**, 5221, (*activity*)

Tanaka, H. *et al.*, *Cancer Res.*, 1990, **50**, 6615, (*pharmacokinet*)

Schwab, G. *et al.*, *Ann. Hematol.*, 1994, **69**, 1, (*rev*)

Frampton, J.E. *et al.*, *Drugs*, 1994, **48**, 731, (*rev*)

Martindale, *The Extra Pharmacopoeia*, 32nd edn., *Pharmaceutical Press*, 1999, 723