Bleomycin complex

Product Data Sheet

Code No.: BIA-B1203
Pack sizes: 10 mg, 50 mg

Synonyms: Blenoxane, Bleo

Specifications

- CAS #: 9041-93-4
- Molecular Formula: C_{55}H_{84}N_{17}O_{21}S_{3} (for A2)
- Molecular Weight: 1415.6
- Source: Streptomyces sp.
- Appearance: Off-white solid
- Purity: >99% by HPLC
- Long Term Storage: -20°C
- Solubility: Soluble in water and methanol, with moderate ethanol solubility.

Application Notes

Bleomycin is a complex of 11 glycopeptide antitumour antibiotics originally isolated from Streptomyces verticillus in 1972. The dominant components of the complex are bleomycin A2 and B2, which typically represent >90% of the total weight. Bleomycins have found clinical application in the treatment of a range of tumours. Bleomycins act by intercalation of DNA and RNA. In the presence of oxygen and metal ions, notably copper and iron, bleomycins form a pseudo-enzyme that induces DNA cleavage.

References


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