Bleomycin Sulfate, *Streptomyces verticillus*  

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**Cat. No.** 203401  
**Synonym:** Blenoxane  
**Description:** A mixture of cytotoxic glycopeptides that inhibits DNA synthesis by reacting with DNA and causing strand scission. Acts by generating hydroxyl free radicals which cleave N-glycosidic bonds and cause base elimination (mainly T) and phosphodiester bond scission. An antineoplastic agent capable of mimicking apoptosis. Useful in the treatment of squamous cell carcinomas, testicular tumors, and malignant lymphomas.  
**Form:** White to cream-colored solid  
**CAS Number:** 9041-93-4  
**RTECS:** EC5991990  
**Solubility:** H₂O (20 mg/ml), aqueous buffers, and methanol  
**Storage:** Refrigerate (+4°C). Following reconstitution, aliquot and freeze (-20°C) for long term storage or refrigerate (+4°C) for short-term storage. This product is stable for 5 years as supplied. Aqueous stock solutions (≥3 units/ml) are stable for at least 1 month at +4°C or for 3 months at -20°C.  
**Toxicity:** MSDS available upon request.  
**Merck Index:** 13: 1311  
**References:**  

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