



LKT Laboratories, Inc.

Bleomycin Sulfate

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Product Information

Product ID B4518

CAS No. 9041-93-4

Chemical Name

Synonym Blenoxane, Blexane

Formula $C_{55}H_{84}N_{17}O_{21}S_3 \cdot H_2SO_4$

Formula Wt. 1512.63

Melting Point 71 °C

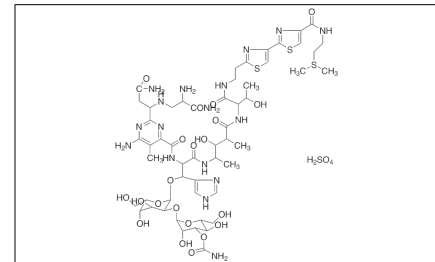
Purity $\geq 90\%$

Solubility Soluble in water (20 mg/mL), DMSO (100 mg/mL), methanol.

Store Temp 4 °C

Ship Temp Ambient

Description This product is a mixture of bleomycin sulfate salts; bleomycin A₂ is pictured. Bleomycin is an anticancer chemotherapeutic that binds DNA and induces DNA cleavage and strand breaks; it is highly toxic. Bleomycin A5 is clinically used to treat lymphomas, squamous cell carcinomas, and testicular cancer. Additionally, this compound induces apoptosis, alters cell cycle regulation, inhibits proliferation, and decreases tumor size in cellular and animal models of hemangioma. Bleomycin A2 inhibits viral reproduction of human papilloma virus. Bleomycin A2 also cleaves DNA at 5'-GT sequences (including in telomeres) and induces tRNA cleavage. Bleomycin may also inhibit thioredoxin reductase.



Bulk quantities available upon request

Product ID	Size
B4518	5 mg
B4518	10 mg
B4518	25 mg
B4518	100 mg

References Ramírez-Fort MK, Au SC, Javed SA, et al. Management of cutaneous human papillomavirus infection: pharmacotherapies. *Curr Probl Dermatol.* 2014;45:175-85. PMID: 24643186.

Li P, Li DF, Guo ZT, et al. Therapeutic mechanism of bleomycin A5 on infancy hemangioma: an experimental study. *Zhonghua Kou Qiang Yi Xue Za Zhi.* 2013 Jan;48(1):18-22. PMID: 23534516.

Nguyen HT, Murray V. The DNA sequence specificity of bleomycin cleavage in telomeric sequences in human cells. *J Biol Inorg Chem.* 2012 Dec;17(8):1209-15. PMID: 22961398.

Yang Y, Sun M, Ma Q, et al. Bleomycin A5 sclerotherapy for cervicofacial lymphatic malformations. *J Vasc Surg.* 2011 Jan;53(1):150-5. PMID: 20843632.

Liu Y, Wu F, Zou G. Electrophoresis mobility shift assay and biosensor used in studying the interaction between bleomycin A5 and DNA. *Anal Chim Acta.* 2007 Sep 19;599(2):310-4. PMID: 17870295.

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Abraham AT, Lin JJ, Newton DL, et al. RNA cleavage and inhibition of protein synthesis by bleomycin. *Chem Biol.* 2003 Jan;10(1):45-52. PMID: 12573697.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.