



LKT Laboratories, Inc.

Bleomycin A5 Hydrochloride

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Product Information

Product ID B4517
CAS No. 55658-47-4
Chemical Name

Synonym Pingyangmycin hydrochloride

Formula $C_{57}H_{89}N_{19}O_{21}S_2 \cdot HCl$

Formula Wt. 1477.02

Melting Point

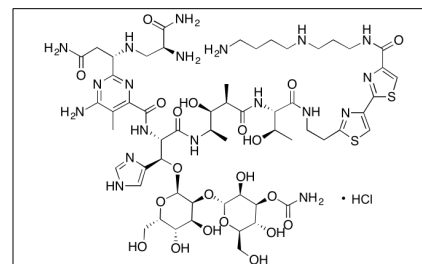
Purity $\geq 90\%$

Solubility Freely soluble in water,
slightly soluble in ethanol

Store Temp 4° C

Ship Temp Ambient

Description Bleomycin A5 is an anticancer chemotherapeutic that binds DNA and induces DNA cleavage and strand breaks; it is highly toxic. Bleomycin 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 may also inhibit thioredoxin reductase.



Bulk quantities available upon request

Product ID	Size
B4517	1 mg
B4517	5 mg
B4517	10 mg
B4517	25 mg

References 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.

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.

Vorobjev PE, Smith JB, Pyshnaya IA, et al. Site-specific cleavage of RNA and DNA by complementary DNA--bleomycin A5 conjugates. *Bioconjug Chem.* 2003 Nov-Dec;14(6):1307-13. PMID: 14624648.

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