



LKT Laboratories, Inc.

Actinomycin

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Product Information

Product ID A0977

CAS No. 50-76-0

Chemical Name

Synonym Actinomycin D, Meractinomycin, Dactinomycin

Formula C₆₂H₈₆N₁₂O₁₆

Formula Wt. 1255.50

Melting Point 245-255° C (dec.)

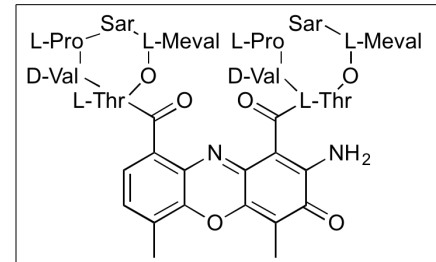
Purity ≥98%

Solubility Soluble in ethanol, propylene glycol, water + glycol mixture. Soluble in DMSO (50 mg/mL), methanol (10 mg/mL).

Store Temp Ambient

Ship Temp Ambient

Description Actinomycin D is a polypeptide antibiotic produced from *Streptomyces*; it exhibits anticancer chemotherapeutic activity but does not display antibacterial benefit. Actinomycin D is clinically used to treat various cancers and is one component of the VAC chemotherapy regimen. Actinomycin D binds DNA, preventing chain elongation and inhibiting RNA polymerase and topoisomerase activity. In cellular and animal models of chronic lymphocytic leukemia (CLL), this compound downregulates expression of Bcl-2 and Mcl-1, induces apoptosis, inhibits cellular proliferation, and decreases tumor burden.



Bulk quantities available upon request

Product ID	Size
A0977	5 mg
A0977	10 mg

References Merkel O, Wacht N, Sift E, et al. Actinomycin D induces p53-independent cell death and prolongs survival in high-risk chronic lymphocytic leukemia. *Leukemia*. 2012 Dec;26(12):2508-16. PMID: 22743622.

Koba M, Konopa J. Actinomycin D and its mechanisms of action. *Postepy Hig Med Dosw (Online)*. 2005;59:290-8. PMID: 15995596.

Sobell HM. Actinomycin and DNA transcription. *Proc Natl Acad Sci U S A*. 1985 Aug;82(16):5328-31. PMID: 2410919.

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