



Product Information

Product ID C577524

CAS No. 80890-47-7

Chemical Name

Synonym Folimycin

Formula $C_{46}H_{75}NO_{14}$

Formula Wt. 866.10

Melting Point

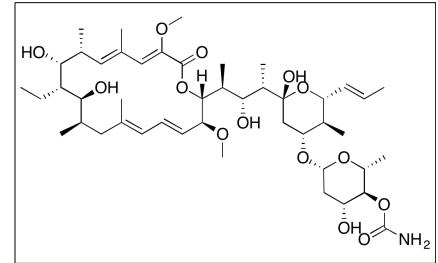
Purity $\geq 98\%$

Solubility Soluble in water (partly),
chloroform, ethanol,
methanol, and DMSO.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Concanamycin A is an 18-membered macrolide lactone antibiotic produced by *Streptomyces diastatochromogenes* S45. Concanamycin A has shown fungicidal, larvicidal, and cytotoxic activities. In human oral squamous cell carcinoma cells, treatment with concanamycin A inhibited the acidification of vesicular organelles, inhibited proliferation, induced apoptosis, induced phosphorylation of p38, and increased the Bax/Bcl-2 ratio. Concanamycin A is known to be a specific inhibitor of vacuolar H⁺-ATPase.



Bulk quantities available upon request

Product ID	Size
C577524	250 μ g
C577524	1 mg

References Westley JW, Liu CM, Sello LH, et al. The structure and absolute configuration of the 18-membered macrolide lactone antibiotic X-4357B (concanamycin A). *J Antibiot (Tokyo)*. 1984 Dec;37(12):1738-1740. PMID: 6526741

Kiyoshima T, Yoshida H, Wada H, et al. Chemoresistance to concanamycin A1 in human oral squamous cell carcinoma is attenuated by an HDAC inhibitor partly via suppression of Bcl-2 expression. *PLoS One*. 2013 Nov 20;8(11):e80998. PMID: 24278362

Yano K, Yanagisawa T, Mukae K, et al. Dissection of autophagy in tobacco BY-2 cells under sucrose starvation conditions using the vacuolar H⁽⁺⁾-ATPase inhibitor concanamycin A and the autophagy-related protein Atg8. *Plant Signal Behav*. 2015;10(11):e1082699. PMID: 26368310

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