



## Product Information

Product ID C577524

CAS No. 80890-47-7

Chemical Name [(2R,3S,4R,6R)-6-[(2R,4R,5S,6R)-2-[(2S,3R,4S)-4-[(2R,3S,4E,6E,9R,10S,11S,12R,13R,14E,16Z)-11-ethyl-10,12-dihydroxy-3,17-dimethoxy-7,9,13,15-tetramethyl-18-oxo-1-oxacyclooctadeca

Synonym Folimycin

Formula C<sub>46</sub>H<sub>75</sub>NO<sub>14</sub>

Formula Wt. 866.10

Melting Point

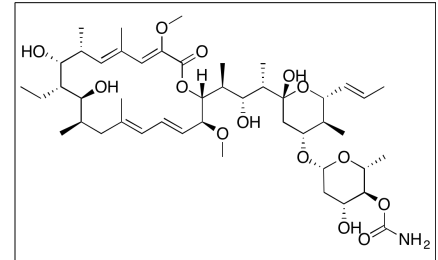
Purity ≥98%

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

Store Temp -20°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<sup>+</sup>-ATPase.



## Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
C577524	100 µg	\$110.00
C577524	250 µg	\$231.50
C577524	1 mg	\$665.70

**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<sup>(+)</sup>-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.