Concanamycin A

PRODUCT DATA SHEET

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Product Name: Concanamycin A
Product Number: C182
CAS Number: 80890-47-7
Molecular Formula: C_{46}H_{75}NO_{14}
Molecular Weight: 866.1
Appearance: White Solid
Storage Conditions: -20°C

Description: Concanamycin A is the major analogue of the concanamycin complex produced by Streptomyces sp.. It has been shown to act as a potent and specific vacuolar-ATPase inhibitor. Concanamycin A inhibits the acidification of organelles and blocks cell surface expression of viral envelope glycoproteins without affecting their synthesis. It also interferes with intracellular protein trafficking and inhibits perforin- and Fas-based lytic pathways in cell-mediated cytotoxicity. Concanamycins are structurally related to the bafilomycins.

Concanamycin A is soluble in ethanol, methanol, DMF and DMSO.

Mechanism of Action: Concanamycin A inhibits the acidification of organelles and blocks cell surface expression of viral envelope glycoproteins without affecting their synthesis. It also interferes with intracellular protein trafficking and inhibits perforin- and Fas-based lytic pathways in cell-mediated cytotoxicity.

References: The V-ATPase inhibitors concanamycin A and bafilomycin A lead to Golgi swelling in tobacco BY-2 cells. Robinson D.G. et al. , Protoplasma 2004, 224, 255.


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