

Product Name: Concanamycin B

Product Number: C183

CAS Number: 81552-33-2

Molecular Formula: $C_{45}H_{73}NO_{14}$

Molecular Weight: 851.5

Appearance: White solid

Storage Conditions: -20°C

Description: Concanamycin B is a macrocyclic lactone originally isolated from *Streptomyces diastatochromogenes* in 1982 as a potent inhibitor of the proliferation of mouse splenic lymphocytes stimulated by concanavalin A.

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

Mechanism of Action: Concanamycin B inhibits vacuolar H(+)-ATPase and the expression of newly-synthesized MHC class II molecules and suppresses bone resorption in vitro.

References: Structures of concanamycins B and C. Kinashi H. et al. J. Antibiot. 1982, 35, 1618.

Concanamycin B, a vacuolar H(+)-ATPase specific inhibitor suppresses bone resorption in vitro. Woo J.T. et al. Biol. Pharm. Bull. 1996, 19, 297.

Concanamycin B inhibits the expression of newly-synthesized MHC class II molecules on the cell surface. Ito K. et al. J. Antibiot. 1995, 48, 488.