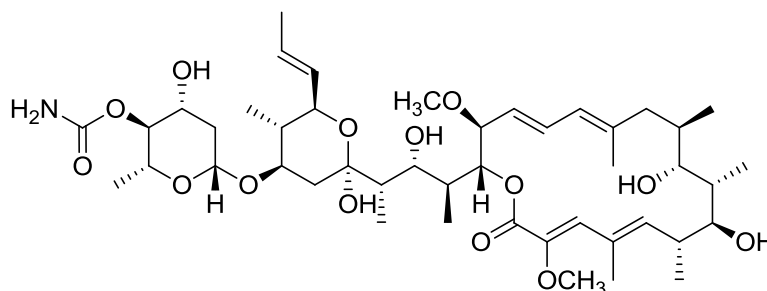


Concanamycin B

Code No.: **BIA-C1366**

Pack sizes: **0.25 mg, 1 mg**



Synonyms : S 45B

Specifications

CAS #	: 81552-33-2
Molecular Formula	: C ₄₅ H ₇₃ NO ₁₄
Molecular Weight	: 851.5
Source	: <i>Streptomyces</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

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. Like other concanamycins and bafilomycins, concanamycin B inhibits vacuolar H(+)-ATPase. Concanamycin B inhibits the expression of newly-synthesized MHC class II molecules and suppresses bone resorption in vitro.

References

1. Structures of concanamycins B and C. Kinashi H. et al., J. Antibiot. 1982, 35, 1618.
2. Concanamycin B, a vacuolar H(+)-ATPase specific inhibitor suppresses bone resorption in vitro. Woo J.T. et al., Biol. Pharm. Bull. 1996, 19, 297.
3. 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.