Concanamycin B

Synonyms: S 45B

Specifications

CAS #: 81552-33-2
Molecular Formula: C_{45}H_{73}NO_{14}
Molecular Weight: 851.5
Source: Streptomyces 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 diastatochromogens 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