

## Product Data Sheet

Product Name: Concanamycin B

Cat. No.: GC43307

### Chemical Properties

Cas. No. 81552-33-2

SMILES C[C@H](/C=C(C)/C=C1\OC)[C@H](O)[C@@H](C)[C@@H](O)[C@H](C)C/C(C)=C\C=C[C[C@H](OC)[C@]([C@@H](C)[C@@H](O)[C@H](C)[C@@](O)(C[C@@H](O[C@@]2([H])C[C@@H](O)[C@H](OC(N)=O)[C@@H](C)O2)[C@@H]3C)O[C@@H]3/C=C/C)([H])OC1=O

Formula C<sub>45</sub>H<sub>73</sub>NO<sub>14</sub>

M.Wt 852.1

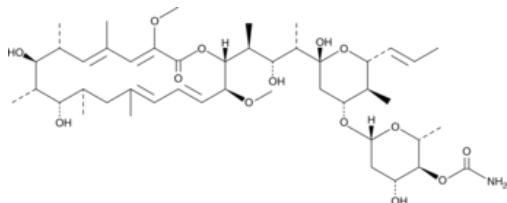
Solubility DMF: soluble, DMSO: soluble, Ethanol: soluble, Methanol: soluble

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



### Background

Concanamycin B is a macrolide antibiotic that selectively inhibits vacuolar type H<sup>+</sup>-ATPases, also known as V-ATPases (IC<sub>50</sub> = 5 nM). In this way, it blocks the acidification of vacuolar organelles as well as early to late endosomal transport. Concanamycin B interferes with bone resorption and maturation of CD8 T lymphocytes. It also prevents processing of major histocompatibility complex (MHC) class II precursors in human B cells, inhibiting the expression of MHC class II molecules on the cell surface.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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