

Product Data Sheet

Product Name: Kazusamycin B

Cat. No.: GC43995

Chemical Properties

Cas. No. 107140-30-7

SMILES O=C1OC(/C=C/C(C)=C\C(C)C/C=C/C(C)=C/C(CO)C(C(C)C(O)C(C)C/C(C)=C/C(O)=O)=O)C(C)C=C1

Formula C₃₂H₄₆O₇

M.Wt 542.7

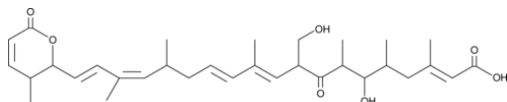
Solubility Soluble in DMSO

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

Kazusamycin B is a bacterial metabolite originally isolated from *Streptomyces*. It has antifungal activity against *S. pombe* and *R. javanicus* (MICs = 0.05 and 2.13 µg/ml, respectively) but is inactive against Gram-positive and Gram-negative bacteria (MICs = >100 µg/ml). Kazusamycin B (5 ng/ml) halts the cell cycle at the G1 phase and induces nuclear condensation in L1210 cells, as well as inhibits nuclear-to-cytosolic transport of the HIV-1 regulatory protein Rev in HeLa cells expressing Rev (IC₅₀ = 6.3 nM). It is cytotoxic to L1210 and HCT-8 cells with IC₅₀ values of 1.8 and 1.6 ng/ml, respectively, and reduces tumor growth in a variety of murine tumor and mouse xenograft models.

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

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