

Product Data Sheet

Product Name: Benanomicin A

Cat. No.: GC49038

Chemical Properties

Cas. No. 116249-65-1

SMILES OC1=C2C3=C(O)C(C(C4=CC(OC)=CC(O)=C4C5=O)=O)=C5C=C3[C@@H]([C@H](C2=CC(C)=C1C(N[C@H](C)C(O)=O)=O)O[C@H]6[C@@H]([C@H]([C@H]([C@H](O6)C)O)O[C@H]7[C@@H]([C@H]([C@@H](CO7)O)O)O)O

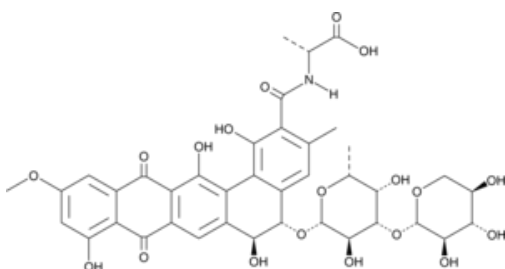
Formula C₃₉H₄₁NO₁₉ M.Wt 827.7

Solubility Ethanol: soluble Storage -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

Benanomicin A is a microbial metabolite that has been found in *Actinomycetes* and has antifungal, fungicidal, and antiviral activities.^{1,2} It is active against a variety of mammalian and plant pathogenic fungi, including *C. albicans*, *T. mentagrophytes*, *C. neoformans*, *P. oryzae*, and *A. niger* (MICs = 3.13-50 µg/ml).¹ Benanomicin A inhibits HIV-1 viral infection in MT-4 cells in a concentration-dependent manner.²

1. Takeuchi, T., Hara, T., Naganawa, H., et al. New antifungal antibiotics, benanomicins A and B from an actinomycete. *J. Antibiot. (Tokyo)* 41(6):807-811 (1987)
2. Kondo, S., Gomi, S., Ikeda, D., et al. Antifungal and antiviral activities of benanomicins and their analogues. *J. Antibiot.*

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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