

Product Data Sheet

Product Name: Benanomycin B (formate)

Cat. No.: GC49040

Chemical Properties

Cas. No. N/A

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)N)O[C@H]7[C@@H]([C@H]([C@@H](CO7)O)O)O)O.O.C8=C9C%10=C(O)C(C(C%11=CC(OC)=CC(O)=C%11C%12=O)=O)=C%12C=C%10[C@@H]([C@H](C9=CC(C)=C8C(N[C@H](C)C(O)=O)=O)O[C@H]%13[C@@H]([C@H]([C@H]([C@H](O%13)C)N)O[C@H]%14[C@@H]([C@H]([C@@H](CO%14)O)O)O)O.O.C%15=C%16C%17=C(O)C(C(C%18=CC(OC)=CC(O)=C%18C%19=O)=O)=C%19C=C%17[C@@H]([C@H](C%16=CC(C)=C%15C(N[C@H](C)C(O)=O)=O)O[C@H]%20[C@@H]([C@H]([C@H]([C@H](O%20)C)N)O[C@H]%21[C@@H]([C@H]([C@@H](CO%21)O)O)O)O.O.C%22=C%23C%24=C(O)C(C(C%25=CC(OC)=CC(O)=C%25C%26=O)=O)=C%26C=C%24[C@@H]([C@H](C%23=CC(C)=C%22C(N[C@H](C)C(O)=O)=O)O[C@H]%27[C@@H]([C@H]([C@H]([C@H](O%27)C)N)O[C@H]%28[C@@H]([C@H]([C@@H](CO%28)O)O)O)O.O.C%29=C%30C%31=C(O)C(C(C%32=CC(OC)=CC(O)=C%32C%33=O)=O)=C%33C=C%31[C@@H]([C@H](C%30=CC(C)=C%29C(N[C@H](C)C(O)=O)=O)O[C@H]%34[C@@H]([C@H]([C@H]([C@H](O%34)C)N)O[C@H]%35[C@@H]([C@H]([C@@H](CO%35)O)O)O)O.O.C%36=C%37C%38=C(O)C(C(C%39=CC(OC)=CC(O)=C%39C%40=O)=O)=C%40C=C%38[C@@H]([C@H](C%37=CC(C)=C%36C(N[C@H](C)C(O)=O)=O)O[C@H]%41[C@@H]([C@H]([C@H]([C@H](O%41)C)N)O[C@H]%42[C@@H]([C@H]([C@@H](CO%42)O)O)O)O)O.O=CO

Formula [C39H42N2O18]·CH2O2 M.Wt 5006.5

Solubility N/A 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.

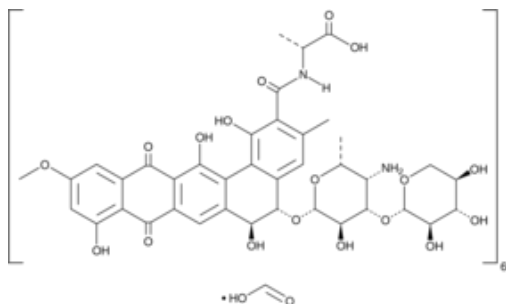
Caution: Product has not been fully validated for medical applications. For research use only.

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

Product Data Sheet

Structure



Background

Benanomicin B 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*, and *P. oryzae* (MICs = 1.56-50 µg/ml).¹ Benanomicin B 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. (Tokyo)* 44(11):1228-1236 (1990)

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