

Product Data Sheet

Product Name: Antibiotic PF 1052

Cat. No.: GC45383

Chemical Properties

Cas. No. 147317-15-5

SMILES CC1CC(C)C2C(C=CC(C3(C)C(C)O3)C2/C(O)=C4C(N(C)C(C(C)CC)C\4=O)=O)C1

Formula C₂₆H₃₉NO₄

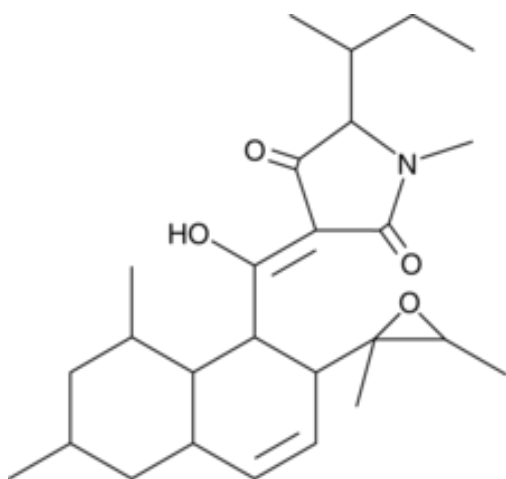
M.Wt 429.6

Solubility DMSO: 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

Antibiotic PF 1052 is a fungal metabolite originally isolated from *Phoma*.^{1,2} It is active against *S. aureus*, *S. parvulus*, and *C. perfringens* (MICs = 3.13, 0.78, and 0.39 µg/ml, respectively), among others.¹ It inhibits neutrophil migration in a wound assay using zebrafish larvae expressing GFP-labeled neutrophils, reducing pseudopodia formation and inducing rounding of neutrophils.² Antibiotic PF 1052 is selective for neutrophil migration over macrophage migration in zebrafish larvae. It also inhibits the migration of murine neutrophils when used at concentrations of 10 and 20 µM.

References

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