

Product Data Sheet

Product Name: Myceliothermophin E

Cat. No.: GC47711

Chemical Properties

Cas. No. 955083-90-6

SMILES CC1=C[C@]2(C)C[C@H](C)CC[C@@]2([H])[C@H](C(C(C(N/3)=O)=CC3=C\C(C)C)=O)[C@@H]1/C(C)=C/C

Formula C₂₆H₃₇NO₂

M.Wt 395.6

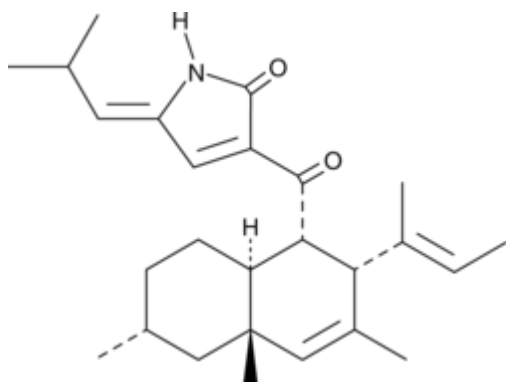
Solubility DMF: soluble, DMSO: soluble, Ethanol: soluble, Methanol: soluble

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

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

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Myceliothermophin E is a polyketide-amino acid hybrid fungal metabolite that has been found in *T. thermophilus* and has anticancer and antimicrobial activities.^{1,2} It is cytotoxic to DLD-1, Hep3B, HepG2, and HGC-27 cancer cells (IC₅₀s = 0.32, 0.42, 0.26, and 0.08 µg/ml, respectively).¹ Myceliothermophin E is active against methicillin-resistant, but not -sensitive, *S. aureus* (MICs = 15.8 and >100 µM, respectively).²

1. Gao, Y.-L., Zhang, M.-L., Wang, X., et al. Isolation and characterization of a new cytotoxic polyketide-amino acid hybrid from *Thermothelomyces thermophilus* ATCC 42464. *Nat. Prod. Res.* Epub ahead of print (2019).
2. Wang, X., Zhao, L., Liu, C., et al. New tetramic acids comprising of decalin and pyridones from *Chaetomium olivaceum* SD-80A with antimicrobial activity. *Front. Microbiol.* 10:2958 (2020).

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