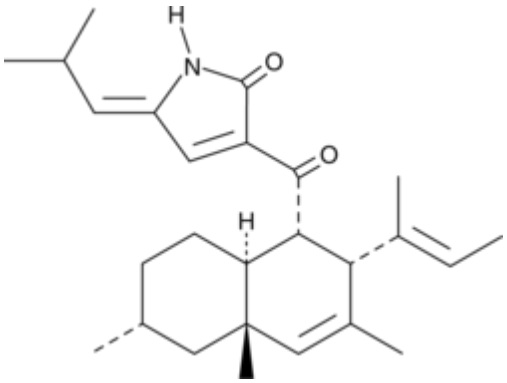
Product Data Sheet

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

Product Data Sheet

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 (IC_{50}s = 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 42464Nat. 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 activityFront. Microbiol.102958(2020)

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