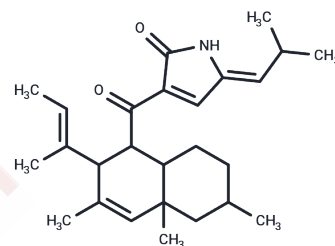


## Myceliothermophin E

## Chemical Properties

CAS No. :	955083-90-6
Formula:	C <sub>26</sub> H <sub>37</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	395.587
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Myceliothermophin E is a polyketide-amino acid hybrid fungal metabolite that has been found in <i>T. thermophilus</i> and has anticancer and antimicrobial activities. 1,2 It is cytotoxic to DLD-1, Hep3B, HepG2, and HGC-27 cancer cells (IC <sub>50</sub> s = 0.32, 0.42, 0.26, and 0.08 µg/ml, respectively). 1 Myceliothermophin E is active against methicillin-resistant, but not -sensitive, <i>S. aureus</i> (MICs = 15.8 and >100 µM, respectively). 2
Targets(IC50)	Others

## Solubility Information

Solubility	DMF: Soluble DMSO: Soluble Methanol: Soluble Ethanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5279 mL	12.6393 mL	25.2787 mL
5 mM	0.5056 mL	2.5279 mL	5.0557 mL
10 mM	0.2528 mL	1.2639 mL	2.5279 mL
50 mM	0.0506 mL	0.2528 mL	0.5056 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Gao, Y.-L., Zhang, M.-L., Wang, X., et al. Isolation and characterization of a new cytotoxic polyketide-amino acid hybrid from *Thermoascus thermophilus* ATCC 42464. *Nat. Prod. Res.* Epub ahead of print (2019)

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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