

Product Data Sheet

Product Name: Trypacidin

Cat. No.: GC48711

Chemical Properties

Cas. No. 1900-29-4

SMILES O=C1C2(C(C(OC)=O)=CC(C=C2OC)=O)OC3=CC(C)=CC(OC)=C13

Formula C₁₈H₁₆O₇

M.Wt 344.3

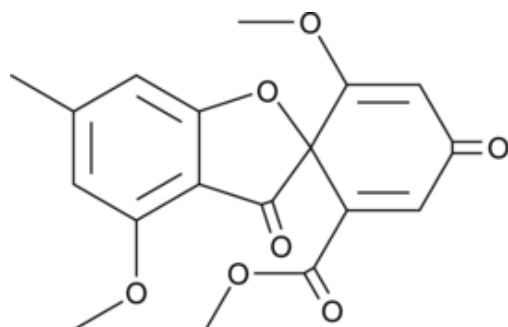
Solubility

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.

Structure



Background

Trypacidin is a fungal metabolite originally isolated from *A. fumigatus*.¹ It is active against *B. subtilis* and *M. bovis* (MICs = 12.5 and 1.25 µg/ml, respectively), as well as *T. cruzi* and *T. gondii* (MICs = 5-10 and 10-20 µg/ml, respectively).^{1,2} It reduces viability and induces lysis of A549 human lung cancer cells (IC₅₀s = 7.4 µM for both).³ Trypacidin increases survival in a mouse model of *T. gondii* infection when administered in six doses of 12.5 mg/kg each.¹

1. Balan, J., Ebringer, L., Nemec, P., et al. Antiprotozoal antibiotics. II. Isolation and characterization of trypacidin, a new antibiotic, active against *Trypanosoma cruzi* and *Toxoplasma gondii*. *J. Antibiot.* (Tokyo) 16:157-160 (1963).
2. Song, Z., Liu, Y., Gao, J., et al. Antitubercular metabolites from the marine-derived fungus strain *Aspergillus fumigatus* MF029. *Nat. Prod. Res.* 1-8 (2019).
3. Gauthier, T.,

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

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Wang, X., Dos Santos, J.S., et al. Trypacidin, a spore-borne toxin from *Aspergillus fumigatus*, is cytotoxic to lung cells PLoS One 7(2):e29906(2012)

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