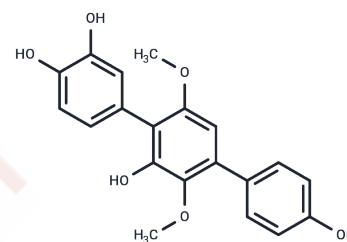


3-Hydroxyterphenyllin

Chemical Properties

CAS No. :	66163-76-6
Formula:	C ₂₀ H ₁₈ O ₆
Molecular Weight:	354.35
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	3-Hydroxyterphenyllin is a p-terphenyl fungal metabolite originally isolated from <i>A. candidus</i> that has diverse biological activities, including antioxidant, antiproliferative, antibacterial, and antiviral properties. ^{1,2,3,4} It has a 96% scavenging effect on 2,2-diphenyl-1-picrylhydrazyl radicals when used at a concentration of 100 µg/ml. ² 3-Hydroxyterphenyllin inhibits the growth of HeLa cervical, A549 lung, and HepG2 liver cancer cells (IC ₅₀ s = 23, 36, and 32 µM, respectively), as well as methicillin-resistant <i>S. aureus</i> (MRSA) and <i>V. vulnificus</i> bacteria (MIC = 31 µg/ml for both). ³ It also inhibits HIV-1 integrase in both coupled and strand transfer assays (IC ₅₀ s = 2.8 and 12.1 µM, respectively). ⁴
Targets(IC ₅₀)	Apoptosis,Others

Solubility Information

Solubility	DMSO: 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	2.8221 mL	14.1103 mL	28.2207 mL
5 mM	0.5644 mL	2.8221 mL	5.6441 mL
10 mM	0.2822 mL	1.411 mL	2.8221 mL
50 mM	0.0564 mL	0.2822 mL	0.5644 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

- Kurobane, I., Vining, L.C., McInnes, A.G., et al. 3-Hydroxyterphenyllin, a new metabolite of *Aspergillus candidus*. Structure elucidation by ¹H and ¹³C nuclear magnetic resonance spectroscopy. *J. Antibiot. (Tokyo)* 32(6), 559-564 (1979).
- Yen, G.-C., Chang, Y.-C., Sheu, F., et al. Isolation and characterization of antioxidant compounds from *Aspergillus candidus* broth filtrate. *J. Agric. Food Chem.* 49(3), 1426-1431 (2001).
- Wang, W., Liao, Y., Tang, C., et al. Cytotoxic and antibacterial compounds from the coral-derived fungus *Aspergillus tritici* SP2-8-1. *Mar. Drugs* 15(11), E348 (2017).
- Singh, S.B., Jayasuriya, H., Dewey, R., et al. Isolation, structure, and HIV-1-integrase inhibitory activity of structurally diverse fungal metabolites. *J. Ind. Microbiol. Biotechnol.* 30(12), 721-731 (2003).

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