Product Data Sheet

Product Name: Terphenyllin
Cat. No.: GC34835

Chemical Properties

Cas. No.	52452-60-5		
SMILES	OC1=CC=C(C=C1)C2=C(C(O)=C(C(OC)=C2)C3=CC=C(C=C3)O)OC		
Formula	$C_{20}H_{18}O_5$	M.Wt	338.35
Solubility	DMSO : 83.33 mg/mL (246.28 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Terphenyllin		

Background

Terphenyllin is a flavonoid metabolite originally isolated from *A. candidus* that has antibacterial and cytotoxic properties.[1,2] It is active against methicillin-resistant *S. aureus* 1 (MRSA-1), MRSA-2, and *V. vulnificus* (MICs = 31.27-31.47 ?g/ml) and cytotoxic to HeLa, A549, and HepG2 cells (IC_{50}s = 18.87, 12.33, and 21.2 ?M, respectively).[2] Terphenyllin inhibits HIV-1 integrase in coupled and strand transfer assays with IC_{50} values of 17.7 ?M and 47.7 ?M.[3]

1.Marchelli, R., and Vining, L.C.Terphenyllin, a novel p-terphenyl metabolite from aspergillus candidusJ. Antibiot. (Tokyo)28(4)328-331(1975) 2.Wang, W., Liao, Y., Tang, C., et al.Cytotoxic and antibacterial compounds from the coral-derived fungus Aspergillus tritici SP2-8-1Mar. Drugs15(11)E348(2017) 3.Singh, S.B., Jayasuriya, H., Dewey, R., et al.Isolation, structure, and HIV-1-integrase inhibitory activity of structurally diverse fungal metabolitesJ. Ind. Microbiol. Biotechnol.30(12)721-731(2003)

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