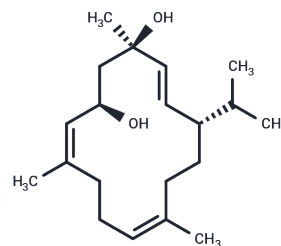


β -Cembrenediol

Chemical Properties

CAS No. :	57605-81-9
Formula:	C ₂₀ H ₃₄ O ₂
Molecular Weight:	306.49
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	β -Cembrenediol (β -CBT) is a natural product from tobacco plants that is found in cigarette smoke condensate. β -CBT inhibits induction of the early antigen of Epstein-Barr virus (EA-EBV) by 12-O-tetradecanoylphorbol-13-acetate (TPA) in vitro (IC ₅₀ = 21.9 μ M). It inhibits tumor promoting effects of TPA on 7,12-demethylbenz[a]anthracene-induced papilloma formation in vivo. β -CBT is also released into soil by flue-cured tobacco plants and exerts autotoxicity as well as phytotoxic activity against <i>L. sativa</i> seedlings.
Targets(IC50)	Others,IDO,Indoleamine 2,3-Dioxygenase (IDO)

Solubility Information

Solubility	Ethanol: 30 mg/mL (97.88 mM),Sonication is recommended. Ethanol:PBS (pH 7.2) (1:4): 0.2 mg/mL (0.65 mM),Sonication is recommended. DMF: 30 mg/mL (97.88 mM),Sonication is recommended. DMSO: 30 mg/mL (97.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2627 mL	16.3137 mL	32.6275 mL
5 mM	0.6525 mL	3.2627 mL	6.5255 mL
10 mM	0.3263 mL	1.6314 mL	3.2627 mL
50 mM	0.0653 mL	0.3263 mL	0.6525 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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