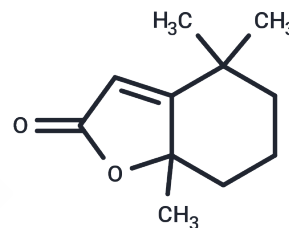


(±)-Dihydroactinidiolide**Chemical Properties**

CAS No. :	15356-74-8
Formula:	C ₁₁ H ₁₆ O ₂
Molecular Weight:	180.25
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	(±)-Dihydroactinidiolide is a benzofuranone natural product with a strong, pleasant aroma characterized by musky, tea-like, sweet, milky, and tobacco-like notes. (±)-Dihydroactinidiolide is widely found in plants such as black tea, kiwifruit, mango, and tobacco. (±)-Dihydroactinidiolide also exhibits antibacterial and antioxidant activity.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 80.00 mg/mL (443.83 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	5.5479 mL	27.7393 mL	55.4785 mL
5 mM	1.1096 mL	5.5479 mL	11.0957 mL
10 mM	0.5548 mL	2.7739 mL	5.5479 mL
50 mM	0.111 mL	0.5548 mL	1.1096 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

- Kaneko H, et, al. The Aroma of Cigar Tobacco. Part I. Isolation of 2-Hydroxy-2,6,6-trimethylcyclohexylidene-1-acetic Acid Lactone (Dihydroactinidiolide) from Ether Extract of Cigar Leaves. *Agricultural and Biological Chemistry*. 1968 *Jou*; 32(11): 1337-40.
- Bosser A, et, al. A Simple Way to (±)-Dihydroactinidiolide from β-Ionone Related to the Enzymic Co-oxidation of β-Carotene in Aqueous Solution. *Biotechnology Progress*. 1995 *Jou*; 11(6): 689-92.
- Ferdosh S, et al. Extraction of Bioactive Compounds and Evaluation of Antioxidant Activity from *Senna alata* Linn Leaves using Subcritical Carbon Dioxide Soxhlet and Conventional Methods. *The Natural Products Journal*. 2025 *Nov*;15(8):E250724232281.

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