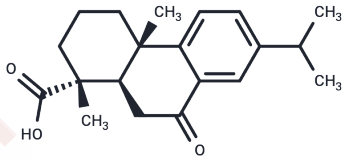
Data Sheet (Cat.No.T39306)

TargetMol

7-Oxodehydroabietic acid

Chemical Properties



CAS No. : 18684-55-4

Formula: C20H26O3

Molecular Weight: 314.42

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	7-Oxodehydroabietic acid is a diterpene resin acid located in the roots of Pinus densiflora (pine), functioning as a defensive agent against herbivorous insects by disrupting their endocrine systems.
Targets(IC50)	Others
In vitro	7-Oxodehydroabietic acid markedly inhibits the growth of P. interpunctella larvae[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1805 mL	15.9023 mL	31.8046 mL
5 mM	0.6361 mL	3.1805 mL	6.3609 mL
10 mM	0.318 mL	1.5902 mL	3.1805 mL
50 mM	0.0636 mL	0.318 mL	0.6361 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

Hyun-Woo Oh, et al. Conifer Diterpene Resin Acids Disrupt Juvenile Hormone-Mediated Endocrine Regulation in the Indian Meal Moth Plodia interpunctella. J Chem Ecol. 2017 Jul;43(7):703-711.
Hisashi Kato-Noguchi, et al. Involvement of allelopathy in inhibition of understory growth in red pine forests. J Plant Physiol. 2017 Nov;218:66-73.

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