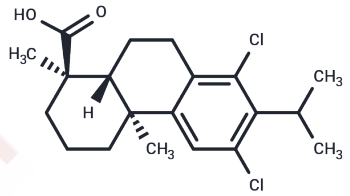
Data Sheet (Cat.No.T40750)

TargetMol

12,14-Dichlorodehydroabietic acid

Chemical Properties



CAS No. : 65281-77-8

Formula: C20H26Cl2O2

Molecular Weight: 369.33

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	12,14-Dichlorodehydroabietic acid, a chlorinated resin acid, exhibits potent calcium-activated potassium (BK) channel opening activity, effectively inhibits GABA-dependent chloride influx in the mammalian brain as a non-competitive antagonist of GABA A receptors, induces elevation in cytosolic free calcium levels, and promotes neurotransmitter release.
Targets(IC50)	Others,GABA Receptor,Potassium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7076 mL	13.538 mL	27.0761 mL
5 mM	0.5415 mL	2.7076 mL	5.4152 mL
10 mM	0.2708 mL	1.3538 mL	2.7076 mL
50 mM	0.0542 mL	0.2708 mL	0.5415 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

R A Nicholson, et al. Inhibition of GABA-gated chloride channels by 12,14-dichlorodehydroabietic acid in mammalian brain. Br J Pharmacol. 1999 Mar;126(5):1123-32.
Kazuho Sakamoto, et al. Molecular mechanisms for large conductance Ca2+-activated K+ channel activation by a novel opener, 12,14-dichlorodehydroabietic acid. J Pharmacol Exp Ther. 2006 Jan;316(1):144-53.

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