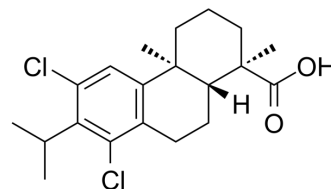


12,14-Dichlorodehydroabietic acid

Cat. No.:	HY-133596
CAS No.:	65281-77-8
Molecular Formula:	C ₂₀ H ₂₆ Cl ₂ O ₂
Molecular Weight:	369.33
Target:	Potassium Channel; GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	12,14-Dichlorodehydroabietic acid, a chlorinated resin acid, is a potent Ca ²⁺ -activated K ⁺ (BK) channel opener. 12,14-Dichlorodehydroabietic acid blocks GABA-dependent chloride entry in mammalian brain and operates as a non-competitive GABA _A antagonist. 12,14-Dichlorodehydroabietic acid increases cytosolic free Ca ²⁺ and stimulates transmitter release ^{[1][2]} .
IC ₅₀ & Target	Ca ²⁺ -activated K ⁺ (BK) channel ^[2] GABA _A ^[1]

REFERENCES

- [1]. RA 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.
- [2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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