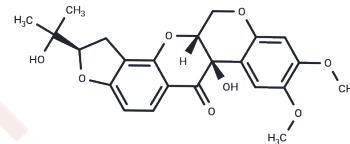


12a-Hydroxydalpanol

Chemical Properties

CAS No. :	85042-77-9
Formula:	C ₂₃ H ₂₄ O ₈
Molecular Weight:	428.43
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	12a-Hydroxydalpanol is a naturally occurring hydroxylated derivative of dalpanol that can be isolated from the leaves of the fruit pod. 12a-Hydroxydalpanol exerts antitumor activity by inhibiting tumor cell proliferation. 12a-Hydroxydalpanol can be used in cancer research.
Targets(IC50)	Others
In vitro	Methods: Human T cell line H9. Cells were seeded at 1.0×10^4 cells/mL in a 24-well plate, cultured with 0.5 g/L 12a-Hydroxydalpanol for 24 hours, and supernatants were collected for IL-6 and TNF- α detection via ELISA to measure cytokine secretion. Results: In the 12a-Hydroxydalpanol-treated group, the specific production rates of IL-6 and TNF- α were 1.16×10^{-4} pg/cell and 1.86×10^{-4} pg/cell, respectively.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3341 mL	11.6705 mL	23.341 mL
5 mM	0.4668 mL	2.3341 mL	4.6682 mL
10 mM	0.2334 mL	1.1671 mL	2.3341 mL
50 mM	0.0467 mL	0.2334 mL	0.4668 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

Lee HJ, et al. Effect of new rotenoid glycoside from the fruits of *Amorpha fruticosa* LINNE on the growth of human immune cells. *Cytotechnology*. 2006 Nov;52(3):219-26.

Li L, Wang HK, Chang JJ, et al. Antitumor agents, 138. Rotenoids and isoflavones as cytotoxic constituents from *Amorpha fruticosa*. *J Nat Prod*. 1993;56(5):690-698.

Terada H, et al. Structural elucidation and chemical conversion of amorphispironone, a novel spironone form *Amorpha fruticosa*, to rotenoids[J]. *Chemical and pharmaceutical bulletin*, 1993, 41(1): 187-190.

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