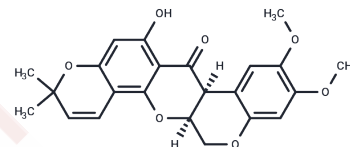


Alpha-Toxicarol

Chemical Properties

CAS No. :	82-09-7
Formula:	C ₂₃ H ₂₂ O ₇
Molecular Weight:	410.42
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	Alpha-Toxicarol is a rotenoid with anticancer and insecticidal activities. It induces oxidative stress and mitochondrial dysfunction, used for natural product and cytotoxicity research.
Targets(IC50)	Others
In vitro	Alpha-Toxicarol was evaluated for its ability to induce quinone reductase (QR) using cultured Hepa 1c1c7 cells. Results demonstrated significant QR inductive activity with a CD value (concentration required to double the activity) of 1.2 μ M. Additionally, in cytotoxicity assays against various human cancer cell lines, the compound exhibited selective growth inhibitory effects, supporting its role as a chemopreventive lead.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4365 mL	12.1826 mL	24.3653 mL
5 mM	0.4873 mL	2.4365 mL	4.8731 mL
10 mM	0.2437 mL	1.2183 mL	2.4365 mL
50 mM	0.0487 mL	0.2437 mL	0.4873 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

Mohamed A Sabry, et al. New thiazole-based derivatives as EGFR/HER2 and DHFR inhibitors: Synthesis, molecular modeling simulations and anticancer activity. Eur J Med Chem. 2022 Aug 10;241:114661.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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