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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

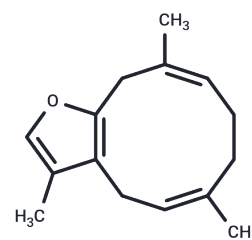
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Furanodiene

Chemical Properties

CAS No. :	19912-61-9
Formula:	C ₁₅ H ₂₀ O
Molecular Weight:	216.32
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Furanodiene has anti-inflammatory and antioxidant activities, it is active against gram-positive bacteria and Candida albicans.
Targets(IC50)	Apoptosis,PARP,Reactive Oxygen Species,Caspase,CDK,P-gp
In vitro	The in vitro effects of Furanodiene were examined on two human breast cancer cell lines, MCF-7 and MDA-MB-231 cells. Assays of proliferation, LDH release, mitochondrial membrane potential ($\Delta\Psi_m$), cell cycle distribution, apoptosis and relevant signaling pathways were performed. The in vivo effect was determined with MCF7 tumor xenograft model in nude mice. Furanodiene significantly inhibited the proliferation and increased the LDH release in both cell lines in a dose-dependent manner. $\Delta\Psi_m$ depolarization, chromatin condensation, and DNA fragmentation were also observed after Furanodiene treatment. Furanodiene dose-dependently induced cell cycle arrest at the G0/G1 phase. The protein expressions of p-cyclin D1, total cyclin D1, p-CDK2, total CDK2, p-Rb, total Rb, Bcl-xL, and Akt were significantly inhibited by Furanodiene, whereas the protein expressions of Bad and Bax, and the proteolytic cleavage of caspase-9, caspase-7, and poly-ADP-ribose polymerase (PARP) were dramatically increased. Furthermore, the z-VAD-fmk markedly reversed the Furanodiene-induced cell cytotoxicity, the proteolytic cleavage of caspase-9, and DNA fragmentation but did not affect the proteolytic cleavage of PARP, whereas the Akt inhibitor VIII increased the Furanodiene-induced cytotoxicity and PARP cleavage. In addition, Furanodiene dose-dependently suppressed the tumor growth in vivo, achieving 32% and 54% inhibition rates after intraperitoneal injection of 15 mg/kg and 30 mg/kg, respectively[1]

Solubility Information

Solubility	DMSO: 10 mM, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6228 mL	23.1139 mL	46.2278 mL
5 mM	0.9246 mL	4.6228 mL	9.2456 mL
10 mM	0.4623 mL	2.3114 mL	4.6228 mL
50 mM	0.0925 mL	0.4623 mL	0.9246 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.

Reference

Furanodiene, a natural product, inhibits breast cancer growth both in vitro and in vivo. Cell Physiol Biochem. 2012; 30(3):778-90.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481