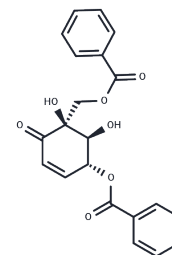


Zeylenone

Chemical Properties

CAS No. :	193410-84-3
Formula:	C ₂₁ H ₁₈ O ₇
Molecular Weight:	382.36
Storage:	Keep away from moisture, Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Zeylenone, a cyclohexene oxide from Uvaria grandiflora, has antitumour and antiproliferative activity, inhibiting cervical cancer cell proliferation and inducing apoptosis through the PI3K/AKT/mTOR and MAPK/ERK signalling pathways.
Targets(IC50)	Apoptosis,ERK,MAPK,Akt,mTOR,PI3K
In vitro	Zeylenone (zey), a cyclohexene oxide compound, exerted an obvious inhibitory effect on several cancer cell lines and exhibited little cytotoxicity towards normal cells, enabling zey to play a unique role in combination therapy.we found that zey potentiated the anti-osteosarcoma efficacy of cisplatin and exhibited synergistic interactions with cisplatin in vitro, which also were confirmed in vivo by using xenograft model[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6153 mL	13.0767 mL	26.1534 mL
5 mM	0.5231 mL	2.6153 mL	5.2307 mL
10 mM	0.2615 mL	1.3077 mL	2.6153 mL
50 mM	0.0523 mL	0.2615 mL	0.5231 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

Yang S, et al. Zeaylenone synergizes with cisplatin in osteosarcoma by enhancing DNA damage, apoptosis, and necrosis via the Hsp90/AKT/GSK3 β and Fanconi anaemia pathway. *Phytother Res.* 2021 Oct;35(10):5899-5918.

Zhang L, et al. Zeaylenone, a naturally occurring cyclohexene oxide, inhibits proliferation and induces apoptosis in cervical carcinoma cells via PI3K/AKT/mTOR and MAPK/ERK pathways. *Sci Rep.* 2017 May 10;7(1):1669.

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