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Zuschläge

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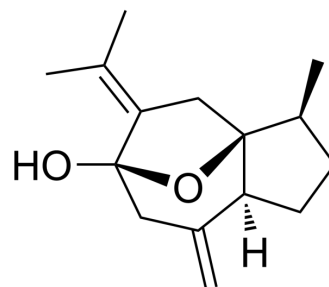
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Isocurcumenol

Cat. No.:	HY-N4121
CAS No.:	24063-71-6
Molecular Formula:	C ₁₅ H ₂₂ O ₂
Molecular Weight:	234.33
Target:	Estrogen Receptor/ERR; Apoptosis
Pathway:	Vitamin D Related/Nuclear Receptor; Apoptosis
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (426.75 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	4.2675 mL	21.3374 mL	42.6749 mL
				5 mM	0.8535 mL	4.2675 mL	8.5350 mL
				10 mM	0.4267 mL	2.1337 mL	4.2675 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.67 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Isocurcumenol, an estrogen receptor alpha (ER α) inhibitor isolated from Curcuma zedoaria Rhizomes, possesses anti-tumor activity, with IC ₅₀ values of 99.1 μ g/mL and 178.2 μ g/mL in DLA and KB cells, respectively ^{[1][2]} .
In Vitro	Isocurcumenol (12.5-400 μ g/mL, 24-48 h) dose-dependently inhibits cancer cells proliferation ^[1] . isocurcumenol does not exhibit any significant toxicity on normal chicken embryo fibroblast cells and lymphocytes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Front Cell Dev Biol. 2021 Nov 10;9:763864.

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REFERENCES

[1]. Lakshmi S, et al. Antitumour Effects of Isocurcumenol Isolated from Curcuma zedoaria Rhizomes on Human and Murine Cancer Cells. Int J Med Chem. 2011;2011:253962.

[2]. Resmi Mustarichiei, et al. In silico study of curcumol, curcumenol, isocurcumenol, and β -sitosterol as potential inhibitors of estrogen receptor alpha of breast cancer. Basic Medical Research. 2014

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

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