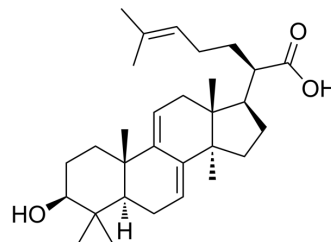


3-Dehydrotrametenolic acid

Cat. No.:	HY-N2177
CAS No.:	29220-16-4
Molecular Formula:	C ₃₀ H ₄₆ O ₃
Molecular Weight:	454.68
Target:	Lactate Dehydrogenase; Apoptosis
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 14.29 mg/mL (31.43 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.1993 mL	10.9967 mL	21.9935 mL
				5 mM	0.4399 mL	2.1993 mL	4.3987 mL
				10 mM	0.2199 mL	1.0997 mL	2.1993 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 1.43 mg/mL (3.15 mM); Suspended solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.43 mg/mL (3.15 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	3-Dehydrotrametenolic acid, isolated from the sclerotium of <i>Poria cocos</i> , is a lactate dehydrogenase (LDH) inhibitor. 3-Dehydrotrametenolic acid promotes adipocyte differentiation in vitro and acts as an insulin sensitizer in vivo. 3-Dehydrotrametenolic acid induces apoptosis and has anticancer activity ^{[1][2]} .
IC ₅₀ & Target	Lactate dehydrogenase ^[1]

REFERENCES

[1]. De Nicola GR, et al. Novel gram-scale production of enantiopure R-sulforaphane from Tuscan black kale seeds. *Molecules*. 2014 May 27;19(6):6975-86.

[2]. Abdull Razis AF, et al. The natural chemopreventive phytochemical R-sulforaphane is a far more potent inducer of the carcinogen-detoxifying enzyme systems in rat liver and lung than the S-isomer. Int J Cancer. 2011 Jun 15;128(12):2775-82.

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

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