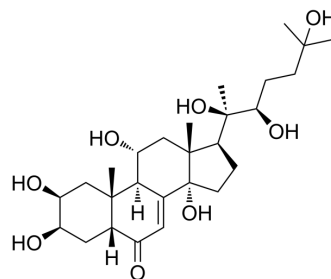


Turkesterone

Cat. No.:	HY-N2548
CAS No.:	41451-87-0
Molecular Formula:	C ₂₇ H ₄₄ O ₈
Molecular Weight:	496.63
Target:	Others
Pathway:	Others
Storage:	4°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 (201.36 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.0136 mL	10.0679 mL	20.1357 mL
				5 mM	0.4027 mL	2.0136 mL	4.0271 mL
				10 mM	0.2014 mL	1.0068 mL	2.0136 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: ≥ 2.5 mg/mL (5.03 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.03 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.03 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Turkesterone is a potent ecdysteroid. Turkesterone acts as an ecdysteroid receptor (EcR) agonist in some insect systems ^[1] .
IC ₅₀ & Target	Ecdysteroid receptor (EcR) ^[1]
In Vitro	The ability of Turkesterone to displace [³ H]ponA from in vitro-expressed DmEcR/DmUSP receptor complex is assessed. The EC ₅₀ is 0.8 μM in the B ₁₁ bioassay, K _i value is 90 nM in the receptor assay ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Dinan L, et al. Synthesis and biological activities of turkesterone 11alpha-acyl derivatives. J Insect Sci. 2003;3:6.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA