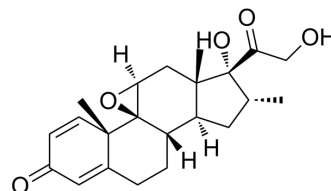


Dexamethasone 9,11-epoxide

Cat. No.:	HY-N0348		
CAS No.:	24916-90-3		
Molecular Formula:	C ₂₂ H ₂₈ O ₅		
Molecular Weight:	372.45		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (268.49 mM; Need ultrasonic)
 H₂O : 1 mg/mL (2.68 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.6849 mL	13.4246 mL	26.8492 mL
	5 mM	0.5370 mL	2.6849 mL	5.3698 mL
	10 mM	0.2685 mL	1.3425 mL	2.6849 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (6.71 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (6.71 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (6.71 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Dexamethasone 9,11-epoxide, a compound extracted from patent CN 106520896 A and RU 2532902 C1, is an intermediate in the preparation of dexamethasone.

REFERENCES

[1]. CN 106520896 A

[2]. RU 2532902 C1

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

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