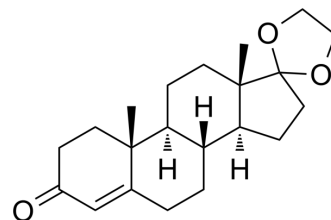


17,17-(Ethylenedioxy)androst-4-en-3-one

Cat. No.:	HY-108952		
CAS No.:	1044-89-9		
Molecular Formula:	C ₂₁ H ₃₀ O ₃		
Molecular Weight:	330.46		
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 : 10 mg/mL (30.26 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.0261 mL	15.1304 mL	30.2609 mL
	5 mM	0.6052 mL	3.0261 mL	6.0522 mL
	10 mM	0.3026 mL	1.5130 mL	3.0261 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: ≥ 1 mg/mL (3.03 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1 mg/mL (3.03 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1 mg/mL (3.03 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

17,17-(Ethylenedioxy)androst-4-en-3-one (4-androstene-3,17-dione-17-cyclic ethylene ketal) is an effective ingredient in cosmetics, which can be used for acne and promote hair growth research. 17,17-(Ethylenedioxy)androst-4-en-3-one can inhibit the reductase activity and inhibit the bond of a receptor protein and 5α-DHT^[1].

REFERENCES

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

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