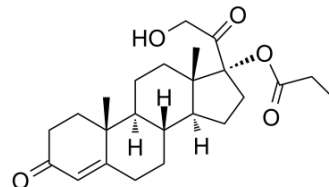


## Clascoterone

Cat. No.:	HY-13331		
CAS No.:	19608-29-8		
Molecular Formula:	C <sub>24</sub> H <sub>34</sub> O <sub>5</sub>		
Molecular Weight:	402.52		
Target:	Androgen Receptor		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (248.43 mM)

\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		2.4843 mL	12.4217 mL	24.8435 mL
5 mM		0.4969 mL	2.4843 mL	4.9687 mL	
10 mM		0.2484 mL	1.2422 mL	2.4843 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: ≥ 2.75 mg/mL (6.83 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**  
Solubility: ≥ 2.75 mg/mL (6.83 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**  
Solubility: ≥ 2.75 mg/mL (6.83 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Clascoterone (Cortexolone 17 alpha-propionate;Cortexolone 17α-propionate;CB-03-01) is a new topical and peripherally selective androgen antagonist.

#### IC<sub>50</sub> & Target

Androgen Receptor<sup>[1]</sup>.

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**In Vivo**

Clascoterone is a new potent topical antiandrogen potentially useful in acne vulgaris. Clascoterone 1% cream was very well tolerated, and was significantly better than placebo regarding TLC (P = 0.0017), ILC (P = 0.0134) and ASI (P = 0.0090), and also clinically more effective than comparator. The product also induced a faster attainment of 50% improvement in all the above parameters.

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**REFERENCES**

- [1]. Trifu V, et al. Cortexolone 17 $\alpha$ -propionate 1% cream, a new potent antiandrogen for topical treatment of acne vulgaris. A pilot randomized, double-blind comparative study vs. placebo and tretinoin 0.05% cream. *Br J Dermatol*. 2011 Jul;165(1):177-83.
- [2]. Celasco G, et al. Biological profile of cortexolone 17 $\alpha$ -propionate (CB-03-01), a new topical and peripherally selective androgen antagonist. *Arzneimittelforschung*. 2004;54(12):881-6.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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