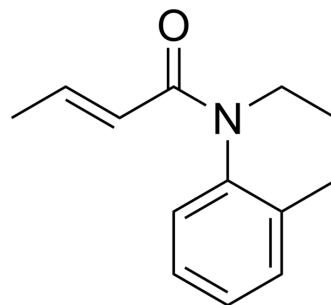


Crotamiton

Cat. No.:	HY-B1177		
CAS No.:	483-63-6		
Molecular Formula:	C ₁₃ H ₁₇ NO		
Molecular Weight:	203.28		
Target:	Parasite		
Pathway:	Anti-infection		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 140 mg/mL (688.71 mM; Need ultrasonic)
 H₂O : 140 mg/mL (688.71 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.9193 mL	24.5966 mL	49.1932 mL
	5 mM	0.9839 mL	4.9193 mL	9.8386 mL
	10 mM	0.4919 mL	2.4597 mL	4.9193 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: ≥ 3.5 mg/mL (17.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 3.5 mg/mL (17.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 3.5 mg/mL (17.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Crotamiton is a drug that is used both as a scabicide (for treating scabies) and as a general antipruritic. It is a prescription lotion based medicine that is applied to the whole body to get rid of the scabies parasite.

IC₅₀ & Target

Mite

REFERENCES

[1]. Kittaka H, et al. Transient receptor potential vanilloid 4 (TRPV4) channel as a target of crotamiton and its bimodal effects. Pflugers Arch. 2017 Oct;469(10):1313-1323.

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

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