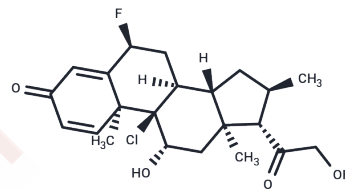


Clocortolone

Chemical Properties

CAS No. :	4828-27-7
Formula:	C ₂₂ H ₂₈ ClFO ₄
Molecular Weight:	410.91
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Clocortolone is a Corticosteroid Hormone Receptor Agonist. It is used in the form of an ester, clocortolone pivalate, and applied as a cream. clocortolone pivalate is used to treat dermatitis and is considered a medium-strength corticosteroid.
Targets(IC50)	Others, Drug Metabolite

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4336 mL	12.1681 mL	24.3362 mL
5 mM	0.4867 mL	2.4336 mL	4.8672 mL
10 mM	0.2434 mL	1.2168 mL	2.4336 mL
50 mM	0.0487 mL	0.2434 mL	0.4867 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Del Rosso JQ, Kircik LH. Transitioning from brand to generic with topical products and the importance of maintaining the formulation and therapeutic profiles of the original product: focus on clocortolone pivalate 0.1% cream. J Drugs Dermatol. 2014 Jul;13(7):s77-83. PubMed PMID: 25007376.

Kircik LH. A study to assess the occlusivity and moisturization potential of three topical corticosteroid products using the skin trauma after razor shaving (STARS) bioassay. J Drugs Dermatol. 2014 May;13(5):582-5. PubMed PMID: 24809882.

Del Rosso JQ, Kircik LH. The role of a midpotency topical corticosteroid and the clinical relevance of formulation characteristics in the management of commonly encountered eczematous and inflammatory dermatoses in adults and children: focus on the pharmacologic properties of clocortolone pivalate 0.1% cream. J Drugs Dermatol. 2013 Feb;12(2):s5-s10. PubMed PMID: 23377405.

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