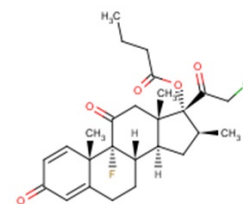


Clobetasone butyrate

Chemical Properties

CAS No.:	25122-57-0
Formula:	C ₂₆ H ₃₂ ClFO ₅
Molecular Weight:	478.98
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Clobetasone butyrate is a synthetic glucocorticoid. Clobetasone butyrate can be used to relieve corticosteroid-responsive dermatoses, including psoriasis and atopic dermatitis. It has topical anti-inflammatory activity, especially in the skin.
Targets(IC ₅₀)	glucocorticoid: None
In vivo	Clobetasone butyrate (application on the skin; 0.05%; 7 weeks) causes epidermal thinning in the skin. Clobetasone butyrate causes much less epidermal thinning in the pig than flurandrenolone (0.05%) or fluocinolone acetonide (0.025%) [1].

Solubility Information

Solubility	DMSO: 250 mg/mL (521.94 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.088 mL	10.439 mL	20.878 mL
5 mM	0.418 mL	2.088 mL	4.176 mL
10 mM	0.209 mL	1.044 mL	2.088 mL
50 mM	0.042 mL	0.209 mL	0.418 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Munro DD, et al. Clobetasone butyrate, a new topical corticosteroid: clinical activity and effects on pituitary-adrenal axis function and model of epidermal atrophy.
2. Michael Stewart, et al. Clobetasone butyrate for inflammatory skin conditions.

Inhibitors · Natural Compounds · Compound Libraries

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