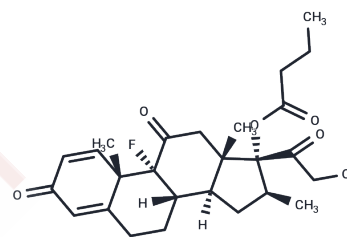


## Clobetasone butyrate

## Chemical Properties

CAS No. :	25122-57-0
Formula:	C <sub>26</sub> H <sub>32</sub> ClFO <sub>5</sub>
Molecular Weight:	478.98
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	Clobetasone butyrate, a synthetic glucocorticoid with topical anti-inflammatory activity, is effective in treating corticosteroid-responsive dermatoses, such as atopic dermatitis and psoriasis, especially within skin tissues.
Targets(IC50)	Glucocorticoid Receptor
In vivo	Clobetasone butyrate (application on the skin; 0.05%; 7 weeks) induces epidermal thinning but results in significantly less thinning in pigs compared to flurandrenolone (0.05%) or fluocinolone acetonide (0.025%), both of which cause severe atrophy[1].

## Solubility Information

Solubility	DMSO: 45 mg/mL (93.95 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 4 mg/mL (8.35 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.0878 mL	10.4388 mL	20.8777 mL
5 mM	0.4176 mL	2.0878 mL	4.1755 mL
10 mM	0.2088 mL	1.0439 mL	2.0878 mL
50 mM	0.0418 mL	0.2088 mL	0.4176 mL

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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

Munro DD, et al. Clobetasone butyrate, a new topical corticosteroid: clinical activity and effects on pituitary-adrenal axis function and model of epidermal atrophy.

Michael Stewart, et al. Clobetasone butyrate for inflammatory skin conditions.

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