

## Hydrocortisone buteprate

## Chemical Properties

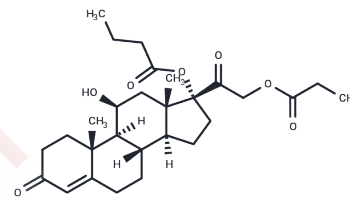
CAS No. : 72590-77-3

Formula: C<sub>28</sub>H<sub>40</sub>O<sub>7</sub>

Molecular Weight: 488.61

Storage: Store at low temperature, Keep away from moisture  
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	Hydrocortisone buteprate is a medium-potent, non-halogenated double-ester derivative of hydrocortisone that has researches indicate highly favorable benefit-to-risk ratio in inflammatory dermatological disorders.
Targets(IC50)	Glucocorticoid Receptor, Others

## Solubility Information

Solubility	DMSO: 200 mg/mL (409.32 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (10.23 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

	1mg	5mg	10mg
1 mM	2.0466 mL	10.2331 mL	20.4662 mL
5 mM	0.4093 mL	2.0466 mL	4.0932 mL
10 mM	0.2047 mL	1.0233 mL	2.0466 mL
50 mM	0.0409 mL	0.2047 mL	0.4093 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

Fölster-Holst R, et al. Topical hydrocortisone 17-butyrate 21-propionate in the treatment of inflammatory skin diseases: pharmacological data, clinical efficacy, safety and calculation of the therapeutic index. Pharmazie. 2016 Mar;71(3):115-21.

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