

## Dexamethasone palmitate

## Chemical Properties

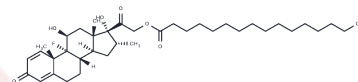
CAS No. : 14899-36-6

Formula: C<sub>38</sub>H<sub>59</sub>F<sub>06</sub>

Molecular Weight: 630.87

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	Dexamethasone palmitate (DXP), a lipophilic prodrug of Dexamethasone, shows a 47-fold lower affinity for the glucocorticoid receptor than Dexamethasone. Dexamethasone palmitate is a glucocorticoid receptor agonist and an anti-inflammatory agent.
Targets(IC50)	Glucocorticoid Receptor,Others
In vivo	In a murine collagen-induced arthritis model, their passive accumulation in arthritic joints leads to disease remission and recovery of the joint structure at a dose of 1 mg/kg dexamethasone, without any adverse effects[1].

## Solubility Information

Solubility	DMSO: 250 mg/mL (396.28 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 (7.93 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	1.5851 mL	7.9256 mL	15.8511 mL
5 mM	0.317 mL	1.5851 mL	3.1702 mL
10 mM	0.1585 mL	0.7926 mL	1.5851 mL
50 mM	0.0317 mL	0.1585 mL	0.317 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

Lorscheider M, et al. Dexamethasone palmitate nanoparticles: An efficient treatment for rheumatoid arthritis. *J Control Release*. 2019 Feb 28;296:179-189.

Dauil P, et al. A preliminary evaluation of dexamethasone palmitate emulsion: a novel intravitreal sustained delivery of corticosteroid for treatment of macular edema. *J Ocul Pharmacol Ther*. 2013 Mar;29(2):258-69.

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