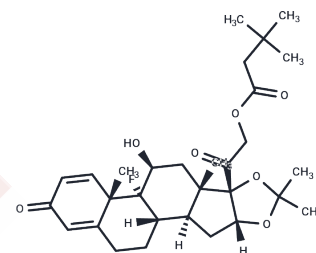


## Triamcinolone hexacetonide

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 5611-51-8   |
| Formula:          | C <sub>30</sub> H <sub>41</sub> F <sub>07</sub>   |
| Molecular Weight: | 532.64  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |  |
|---------------|--|
| Description   | Triamcinolone hexacetonide, an exogenous synthetic corticosteroid, is a highly potent glucocorticoid receptor (GR) agonist for the study of auto-reactive pericarditis and diabetic macular edema.   |
| Targets(IC50) | Glucocorticoid Receptor,Others   |
| In vivo       | <p>Triamcinolone hexacetonide exhibited significant protective effects in a chemically induced model of articular cartilage damage, and this effect was dose-dependent. Guinea pigs injected with the drug exhibited significantly reduced fibrosis and bone spur formation. Triamcinolone hexacetonide injected into the ipsilateral knee of rabbits after partial lateral meniscectomy and severance of the metatarsophalangeal ligament and fibular collateral ligament reduced chondrocyte cloning, cell loss, bone spur formation, and fibrosis. [1]</p> <p>In addition, the half-life of commercially available Triamcinolone hexacetonide in the vitreous humor is twice as long as that of regular Triamcinolone hexacetonide. [2]</p> <p>Localized application of Triamcinolone hexacetonide at the site of lingual nerve injury has been shown to produce beneficial changes such as reduced mechanical sensitivity and promotion of nerve regeneration. [3]</p> |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 30 mg/mL (56.32 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+90% Corn Oil: 2 mg/mL (3.75 mM),Sonication is recommended.<br><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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|       | <b>1mg</b> | <b>5mg</b> | <b>10mg</b> |
|-------|------------|------------|-------------|
| 1 mM  | 1.8774 mL  | 9.3872 mL  | 18.7744 mL  |
| 5 mM  | 0.3755 mL  | 1.8774 mL  | 3.7549 mL   |
| 10 mM | 0.1877 mL  | 0.9387 mL  | 1.8774 mL   |
| 50 mM | 0.0375 mL  | 0.1877 mL  | 0.3755 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

Williams JM, et al. Triamcinolone hexacetonide protects against fibrillation and osteophyte formation following chemically induced articular cartilage damage. *Arthritis Rheum.* 1985 Nov;28(11):1267-74.

Abd-El-Barr MM, et al. Safety and pharmacokinetics of triamcinolone hexacetonide in rabbit eyes. *J Ocul Pharmacol Ther.* 2008 Apr;24(2):197-205.

Yates JM, et al. The effect of triamcinolone hexacetonide on the spontaneous and mechanically-induced ectopic discharge following lingual nerve injury in the ferret. *Pain.* 2004 Oct;111(3):261-9.

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