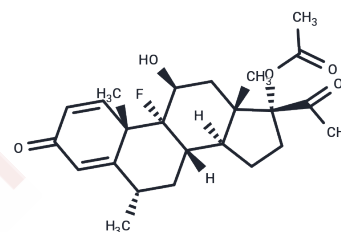


## Fluorometholone Acetate

## Chemical Properties

CAS No. :	3801-06-7
Formula:	C <sub>24</sub> H <sub>31</sub> F <sub>0</sub> O <sub>5</sub>
Molecular Weight:	418.50
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Fluorometholone Acetate (Oxylone acetate) is a synthetic corticosteroid, used in the treatment of steroid responsive inflammatory conditions of the eye.
Targets(IC50)	Glucocorticoid Receptor, Carbonic Anhydrase
In vitro	Fluorometholone Acetate is a synthetic corticosteroid, used in the treatment of steroid responsive inflammatory conditions of the eye. [1]
In vivo	Hourly topical administration of the drug suspension produces an average reduction of 46.8% in the polymorphonuclear leukocytes invading the corneal stroma. In the cornea, fluorometholone acetate appears to have a greater efficacy, as compared to fluorometholone alcohol, for reducing the number of leukocytes invading that tissue following an inflammatory stimulus. Animal toxicity studies of fluorometholone, including acute intraperitoneal LD50s in mice and rats, subacute oral toxicity in rats and dogs, and subacute topical ocular toxicity in rabbits have demonstrated the safety of this drug for human use. [2]

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 84 mg/mL (200.72 mM), Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.89 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.3895 mL	11.9474 mL	23.8949 mL
5 mM	0.4779 mL	2.3895 mL	4.779 mL
10 mM	0.2389 mL	1.1947 mL	2.3895 mL
50 mM	0.0478 mL	0.2389 mL	0.4779 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

Kupferman A, et al. Arch Ophthalmol, 1982, 100(4), 640-641.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481