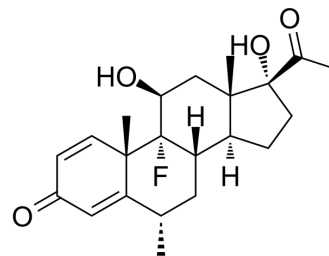


## Fluorometholone

<b>Cat. No.:</b>	HY-B1893
<b>CAS No.:</b>	426-13-1
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>29</sub> FO <sub>4</sub>
<b>Molecular Weight:</b>	376.46
<b>Target:</b>	Glucocorticoid Receptor
<b>Pathway:</b>	GPCR/G Protein
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (132.82 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.6563 mL</td> <td>13.2816 mL</td> <td>26.5632 mL</td> </tr> <tr> <td>5 mM</td> <td>0.5313 mL</td> <td>2.6563 mL</td> <td>5.3126 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2656 mL</td> <td>1.3282 mL</td> <td>2.6563 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.6563 mL	13.2816 mL	26.5632 mL	5 mM	0.5313 mL	2.6563 mL	5.3126 mL	10 mM	0.2656 mL	1.3282 mL	2.6563 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.64 mM); Clear solution																					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Fluorometholone, a synthetic glucocorticoid, is a glucocorticoid receptor agonist with anti-inflammatory and anti-allergic properties. Fluorometholone can be used for the research of dry eye <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	glucocorticoid receptor <sup>[1]</sup>
<b>In Vitro</b>	Fluorometholone (25-100 nM; 12 hours, 24 hours) increases the gene expression of MUC1, MUC4, MUC16 and MUC19 in the conjunctival and corneal epithelial cells through activation of glucocorticoid receptors <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

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- Drug Test Anal. 2020 Aug 27.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Jonathan Taniguchi, et al. Fluorometholone Modulates Gene Expression of Ocular Surface Mucins. Acta Ophthalmol. 2019 Dec;97(8):e1082-e1088.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA