Fluorometholone

Cat. No.: HY-B1893

CAS No.: 426-13-1

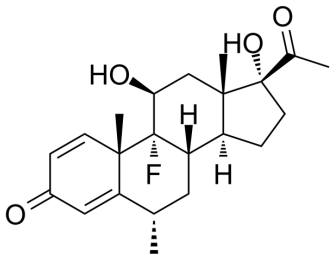
Molecular Formula: $C_{22}H_{29}FO_4$

Molecular Weight: 376.46

Target: Glucocorticoid Receptor

Pathway: Immunology/Inflammation; Vitamin D Related/Nuclear Receptor

Storage: 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

In Vitro

DMSO : 50 mg/mL (132.82 mM; Need ultrasonic)

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.64 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

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[1].

IC_{50} & Target

glucocorticoid receptor[1]

In Vitro

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[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Drug Test Anal. 2020 Aug 27.

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REFERENCES

[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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