Amcinonide

Cat. No.: HY-B1197

CAS No.: 51022-69-6

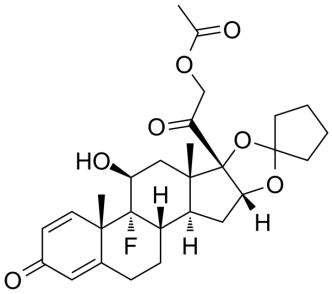
Molecular Formula: $C_{28}H_{35}FO_7$

Molecular Weight: 502.57

Target: Glucocorticoid Receptor

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

Storage: -20°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (497.44 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9898 mL	9.9489 mL	19.8977 mL
	5 mM	0.3980 mL	1.9898 mL	3.9795 mL
	10 mM	0.1990 mL	0.9949 mL	1.9898 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: ≥ 2.08 mg/mL (4.14 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Amcinonide inhibit NO release from activated microglia with IC50 3.38 nM. Amcinonide has affinity for the glucocorticoid receptor.IC50 value: 3.38 nM [1]Target: NO releasein vitro: Simultaneous immunofluorescent staining for T6 and Ia antigenicity within human epidermis of Amcinonide treated skin detected reduced numbers of T6+/Ia+ cells with a concomitant increase in T6+/Ia- cells. [2]in vivo: Amcinonide is an anti-inflammatory agent, elicites whitening of a few hairs in both pheomelanic and eumelanic mice. Amcinonide brings about a marked reduction in the numbers of DOPA-positive epidermal melanocytes inhabiting the tails of eumelanic or pheomelanic mice. Amcinonide exertes a deleterious influence on the structure and function of tail epidermis. [3]

REFERENCES

[1]. Hong J, et al. Identification and characterization of triamcinolone acetonide, a microglial-activation inhibitor. Immunopharmacol Immunotoxicol. 2012 Dec;34(6):912-918.

[2]. Berman B, et al. Modulation of expression of epidermal Langerhans cell properties following in situ exposure to glucocorticosteroids. J Invest Dermatol. 1983 Mar;80(3):168-171.

[3]. Quevedo WC Jr, et al. Influence of depigmenting chemical agents on hair and skin color in yellow (pheomelanic) and black (eumelanic) mice. Pigment Cell Res.1990 Mar-Apr;3(2):71-79.

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