

Product Data Sheet

Product Name: Amcinonide

Cat. No.: GC42782

Chemical Properties

Cas. No. 51022-69-6

SMILES O=C1C=C[C@@]2(C)C(CC[C@]3([H])[C@]2(F)[C@@H](O)C[C@@]4(C)[C@@]3([H])C[C@]5([H])[C@@]4(C(COC(C)=O)=O)OC6(CCCC6)O5)=C1

Formula C₂₈H₃₅FO₇

M.Wt 502.6

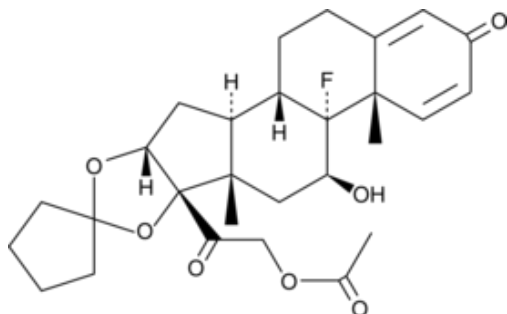
Solubility DMF: 20 mg/ml, DMSO: 25 mg/ml, DMSO: PBS (pH 7.2) (1:1): 0.5 mg/ml, Ethanol: 10 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Amcinonide inhibits 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 release in 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, elicits whitening of a few hairs in both pheomelanin and eumelanin mice. Amcinonide brings about a marked reduction in the numbers of DOPA-positive epidermal melanocytes inhabiting the tails of eumelanin or pheomelanin mice. Amcinonide exerts a deleterious influence on the structure and function of tail epidermis. [3]

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

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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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