

Product Data Sheet

Product Name: Hydrocortisone hemisuccinate

Cat. No.: GC60914

Chemical Properties

Cas. No. 2203-97-6

SMILES C[C@@]12[C@](C(COC(CCC(O)=O)=O)=O)(O)CC[C@@]1([H])[C@]3([H])CCC4=CC(CC[C@]4(C)[C@@]3([H])[C@@H](O)C2)=O

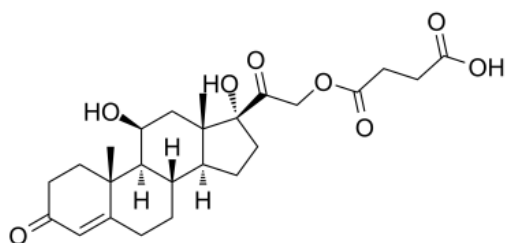
Formula $C_{25}H_{34}O_8$ M.Wt 462.53

Solubility DMSO: 250 mg/mL (540.51 mM) 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

Hydrocortisone hemisuccinate (Hydrocortisone 21-hemisuccinate), a physiological glucocorticoid, and is an orally active steroidal anti-inflammatory drug (SAID). Hydrocortisone hemisuccinate inhibits proinflammatory cytokine activity, with IC₅₀s of 6.7 and 21.4 μM for IL-6 and IL-3, respectively. Hydrocortisone hemisuccinate can be used for the research of ulcerative colitis (UC)[1][2][3].

Hydrocortisone hemisuccinate inhibits IL-6 and IL-3 bioactivity, with IC₅₀s of 6.7 and 21.4 μM,

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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respectively, and shows no cytotoxic effects on IL-6-independent MH60 cells[3]. Hydrocortisone hemisuccinate (0.12-60 μ M; 72 h) inhibits phytohemagglutinin (PHA) response in peripheral lymphocytes (PBL) and T-lymphocytes cultures[3].

Hydrocortisone hemisuccinate (30 mg/kg; p.o. twice daily for 5 d) reduces the weight loss and increases the food intake in mice[2]. Animal Model: Male Sprague-Dawley rats (200-220 g, 10-11 weeks) are induced colitis[2]

[1]. Kang BS, et, al. Inhibitory effects of anti-inflammatory drugs on interleukin-6 bioactivity. Biol Pharm Bull. 2001 Jun;24(6):701-3. [2]. You YC, et, al. In vitro and in vivo application of pH-sensitive colon-targeting polysaccharide hydrogel used for ulcerative colitis therapy. Carbohydr Polym. 2015 Oct 5;130:243-53. [3]. Langhoff E, et, al. The immunosuppressive potency in vitro of physiological and synthetic steroids on lymphocyte cultures. Int J Immunopharmacol. 1987;9(4):469-73.

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