
Product Data Sheet

Product Name: Hydrocortisone acetate (Hydrocortisone 21-acetate)

Cat. No.: GC33849

Chemical Properties

Cas. No. 50-03-3

SMILES CC(=O)OC1CC[C@]23[C@@H](O)CC[C@]1([H])[C@]3([H])CCC4=CC(=O)CC[C@]4(C)[C@@]3([H])[C@@H](O)C2=O

Formula $C_{23}H_{32}O_6$ M.Wt 404.5

Solubility DMSO : ≥ 38 mg/mL (93.94 mM) Storage Store at $-20^{\circ}C$, protect from light

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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 acetate is a synthetic corticosteroid.^{1,2} Topical administration of hydrocortisone acetate (0.1% v/v) reduces corneal haze and hydroxyproline levels without reducing the stromal wound healing response in a rabbit model of photorefractive keratectomy.¹ Hydrocortisone acetate enhances and reduces cartilage degradation in a mouse model of air pouch cartilage implantation when injected into the air pouch cavity or into the air pouch lining tissue, respectively.² Formulations containing hydrocortisone acetate have been used in the treatment of joint inflammation and rheumatoid arthritis.

1. Bilgihan, K., Ozdek, S., Ozo?ul, C., et al. Topical vitamin E and hydrocortisone acetate treatment after photorefractive keratectomy Eye (Lond) 14(Pt 2) 231-237 (2000)

2. Sedgwick, A.D., Sin, Y.M., Moore, A.R., et al. Effects of local administration of hydrocortisone on cartilage degradation in vivo Ann. Rheum. Dis. 43(3) 418-420 (1984)

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

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