

Product Data Sheet

Product Name: Meprednisone

Cat. No.: GC15668

Chemical Properties

Cas. No. 1247-42-3

Chemical Name (8S,9S,10R,13S,14S,16S,17R)-17-hydroxy-17-(2-hydroxyacetyl)-10,13,16-trimethyl-6,7,8,9,12,14,15,16-octahydrocyclopenta[a]phenanthrene-3,11-dione

SMILES CC1CC2C3CCC4=CC(=O)C=CC4(C3C(=O)CC2(C1(C(=O)CO)O)C)C

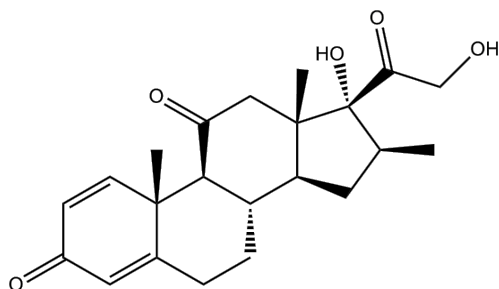
Formula C₂₂H₂₈O₅ M.Wt 372.45

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO: PBS (pH 7.2) (1:5): 0.16 mg/ml, Ethanol: 10 mg/ml
Storage 4°C, protect from light

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

Meprednisone is a glucocorticoid and a methylated derivative of prednisone. Target: Glucocorticoid Receptor. Meprednisone is a glucocorticoid and a methylated derivative of prednisone. The methylprednisone to MPL area under the curve ratio decreased from 0.19 +/- 0.04 in control to 0.14 +/- 0.03 in ketoconazole-treated rats (P less than .05) due to altered interconversion between these steroids. An improved pharmacokinetic/dynamic receptor/gene-mediated model characterized the steroid receptor binding and induction of tyrosine aminotransferase activity after i.v. MPL sodium succinate (10 mg/kg). In contrast to previous in vitro studies, ketoconazole at maximally tolerated

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

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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doses failed to antagonize the steroid receptor-mediated activity of MPL [1].

References:

[1]. Scheuer, E. and E. Warshaw, Allergy to corticosteroids: update and review of epidemiology, clinical characteristics, and structural cross-reactivity. Am J Contact Dermat, 2003. 14(4): p. 179-87.

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