

Product Data Sheet

Product Name: Prednisone-d7

Cat. No.: GC47970

Chemical Properties

Cas. No. N/A

SMILES O=C(CO)[C@@]1(O)CC[C@@]([C@]1(C)C2([2H])[2H])([H])[C@@]3([H])[C@]([C@](C=C4[2H])(C)C(C([2H])([2H])C3)=C([2H])C4=O)([2H])C2=O

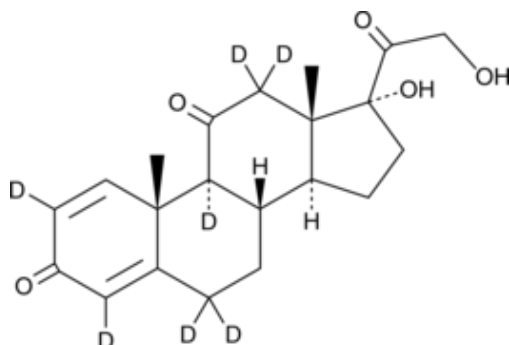
Formula C₂₁H₁₉D₇O₅ M.Wt 365.5

Solubility DMSO: slightly soluble Storage Store at -20°C

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

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

Structure



Background

Prednisone-d7 is intended for use as an internal standard for the quantification of prednisone by GC- or LC-MS. Prednisone is a synthetic glucocorticoid with anti-inflammatory and immunosuppressant activities.¹ It inhibits paw swelling induced by sodium urate in mice by 86% when administered at a dose of 12 mg/kg.² Prednisone reduces release of IL-6, monocyte chemoattractant protein-2 (MCP-2), MCP-3, RANTES, and TNF-α in stented arteries in a rabbit model of atherosclerosis.³ Formulations containing prednisone have been used in the treatment of non-Hodgkin lymphoma as part of CHOP chemotherapy and as anti-inflammatory or immunosuppressive agents.

1. Brownie, A.C. The metabolism of adrenal cortical steroids The Adrenal Gland 2209-225 (1992)

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

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2.Fitzgerald, T.J., Williams, B., and Uyeki, E.M.Effects of antimitotic and anti-inflammatory agents on sodium urate-induced paw swelling in micePharmacology6(5)265-273(1971) 3.Ribichini, F., Joner, M., Ferrero, V., et al.Effects of oral prednisone after stenting in a rabbit model of established atherosclerosisJ. Am. Coll. Cardiol.50(2)176-185(2007)

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