

Product Data Sheet

Product Name: 16-Epiestriol

Cat. No.: GC49068

Chemical Properties

Cas. No. 547-81-9

SMILES C[C@@]12[C@](C[C@@H]([C@@H]2O)O)([H])[C@@]3([H])[C@@](CC1)([H])C4=CC=C(O)C=C4CC3

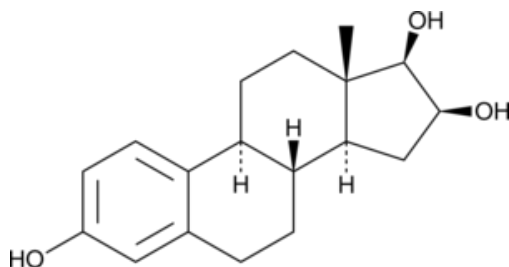
Formula C₁₈H₂₄O₃ M.Wt 288.4

Solubility Ethanol: 1 mg/ml Storage -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

16-Epiestriol is a metabolite of the endogenous estrogen estrone.¹ It is formed from estrone via a 16β-hydroxy estrone intermediate by reduction of the C-17 ketone. 16-Epiestriol (200 µg/ml) inhibits the growth of carbapenem-resistant *A. baumannii*.² It inhibits carrageenan-induced paw edema in rats when administered at a dose of 20 mg/kg.³ Unlike hydrocortisone, 16-epiestriol (240 µg/animal) does not increase plasma or liver glucose levels in adrenalectomized rats.

1. Brinton, L.A., Trabert, B., Anderson, G.L., et al. Serum estrogens and estrogen metabolites and endometrial cancer risk among postmenopausal women *Cancer Epidemiol. Biomarkers Prev.* 25(7)1081-1089(2016)
2. Skariyachan, S., Muddebihalkar, A.G., Badrinath, V., et al. Natural epiestriol-16 act as potential lead molecule against prospective molecular targets of multidrug

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

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resistant *Acinetobacter baumannii*-Insight from in silico modelling and in vitro investigations *Infect. Genet. Evol.* 82:1043-1054 (2020) 3. Latman, N.S., Kishore, V., and Bruot, B.C. 16-Epiestriol: An anti-inflammatory steroid without glycogenic activity *J. Pharm. Sci.* 83(6):874-877 (1994)

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