

Product Data Sheet

Product Name: Estetrol (hydrate)

Cat. No.: GC47309

Chemical Properties

Cas. No. N/A

SMILES OC1=CC(CC[C@]2([H])[C@]3([H])CC[C@@]4(C)[C@@]2([H])[C@@H](O)[C@@H](O)[C@@H]4O)=C3C=C1.O

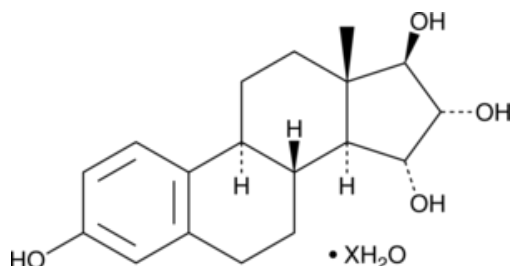
Formula C₁₈H₂₄O₄.XH₂O M.Wt 304.4

Solubility DMF: 30 mg/ml, DMF:PBS(pH 7.2) (1:1): 0.5 mg/ml, DMSO: 20 mg/ml, Ethanol: 5 mg/ml 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

Estetrol is an estrogen steroid hormone exclusively produced by fetal liver from estradiol and estriol during pregnancy. It binds to estrogen receptors (ERs) with 4-fold higher affinity for ER α over ER β and exhibits estrogenic effects in most tissues expressing ERs (bone, brain, vagina, and endometrium).^{1,2} In breast tumors, however, estetrol acts as an estrogen antagonist in the presence of estradiol, preventing tumor growth.^{1,2}

1.Coelingh Bennink, H.J.T., Holinka, C.F., and Diczfalusy, E.Estetrol review: Profile and potential clinical applicationsClimacteric.11(Suppl 1)47-58(2008) 2.Giretti, M.S., Guevara, M.M.M., Cecchi, E., et al.Effects of Estetrol on Migration and Invasion in T47-D Breast Cancer Cells through the Actin

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

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CytoskeletonFront.Endocrinol.(Lausanne)5(80)1-8(2014)

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