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**Product Data Sheet**


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Product Name: Estetrol  
 Cat. No.: GC19478

**Chemical Properties**

Cas. No. 15183-37-6

Chemical Name estra-1,3,5(10)-triene-3,15 $\alpha$ ,16 $\alpha$ ,17 $\beta$ -tetrol

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

Formula C<sub>18</sub>H<sub>24</sub>O<sub>4</sub> M.Wt 304.4

Solubility 5mg/mL in ethanol, 20mg/mL in DMSO, 30mg/mL in DMF 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 $\alpha$  over ER $\beta$  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]

Reference:

- [1]. Coelingh Bennink, H.J.T., Holinka, C.F., and Diczfalusy, E. Estetrol review: Profile and potential clinical applications Climacteric. 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 Cytoskeleton Front.Endocrinol.

**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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