

168℃。元素分析 C<sub>21</sub>H<sub>28</sub>O<sub>3</sub> 计算值 C 76.82, H 8.54 实测值 C 77.12, H 8.93 UV(EtOH)  $\lambda_{\max}$  240 nm(log $\epsilon$  4.17)

17 $\beta$ -羟基-17 $\alpha$ -丙炔基-雌甾-4-烯-3-酮 I<sub>17</sub>

以 I<sub>14</sub>为原料用合成 I<sub>13</sub>的方法合成,得 I<sub>17</sub> 110 mg, mp 102-104℃(lit 97-99℃) UV(EtOH)  $\lambda_{\max}$  240 nm(log $\epsilon$  4.32)

致 谢 中国科学院上海药物研究所药理二室计生组协助进行生物活性测试工作。

## 参 考 文 献

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# Synthesis of the Derivatives of 13 $\alpha$ -Estra-4-ene-3,17-Dione and their 13-Epimer, and Determination of these Compounds Relative Binding Affinity to PR

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The article reports the synthesis of derivatives of 13 $\alpha$ -estra-4-ene-3,17-dione from 13 $\alpha$ -epiandrosterone acetate through 7 steps and its 17-ketone adducts and their corresponding 13 $\beta$ -epimers were synthesized also. By using radio-ligand receptor bioassay, the relative binding affinity of these compounds to progesterone receptor was determined.

**Key words** 13 $\alpha$ -estra-4-ene-3,17-dione; 17-ketone adducts; 13 $\beta$ -epimer; Progesterone receptor; Relative binding affinity

【文摘 051】双波长薄层扫描法测定利福定胶囊的含量 葛建华,张晓彤. 中国药学杂志,1992;27(11):668

利用双波长薄层扫描法测定利福平含量,平均回收率为 98.32%( $n=5$ ),CV=2.6%,采用单向 3 次展开,可将杂质与利福定完全分离。该法操作简便,测定快速,结果准确。

【文摘 052】中药沙参类的研究 I. 药源调查和原

植物鉴定 屠鹏飞,徐国钧,徐璐珊等. 中草药,1992;23(9):482

对贵州、四川、云南、湖北、河南、山西、陕西、甘肃、新疆、江苏、浙江、安徽、山东、黑龙江、内蒙古、吉林等沙参产区和山东、福建等北沙参(莱阳参)产区进行了药源调查和采集植物标本,鉴定出沙参属植物 37 种(亚种、变种),珊瑚属植物 1 种,列出原植物鉴定检索表,基本上搞清了沙参类的基源、分布及产销情况。