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论文

甾体激素 Ⅱ.9a-氟副肾皮质激素的新合成路线

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摘要:

自16a,17a-环氧孕甾-4-烯-11a-醇-3,20-二酮(I)經对甲苯磺酰化和消去反应得到16a,17a-坏氧孕甾-4,9(11)-二 烯-3,20-二酮(II),用氫溴酸打开环氧。氫解脫溴得到孕甾-4,9(11)-二烯-17 α -醇-3,20-二酮(III),引入C₂₁-OAc得 到孕甾-4,9(11)-二烯-17a,21-二醇-3,20-二酮21-醋酸脂(Ⅳ),然后按已知方法合成9a-氟-可的唑(Ⅵ).(Ⅵ)对(Ⅰ)的 ▶加入引用管理器 收率为17.4%理論。也进行了由(III)先引入9 $oldsymbol{eta}$,11 $oldsymbol{eta}$ -环氧,然后引入 C_{21} -OAc以合成9 $oldsymbol{a}$ -氟可的唑的試探。

关键词:

STEROID HORMONES——II .ALTERNATIVE ROUTE TO THE SYNTHESIS OF 9a-FLUORO-CORTICOIDS

SHEN CHIA-CHIANG WANG TSTNG-FU TSAI YONG-KUNG TSAI J-ZHONG LIN ZHEN-CHANG CHANG HSIEN-TEH CHANG YUEN-HUEI LIU GUEI-LAN LIU YUE-CHUEN

Abstract:

The method of Ringold and Stork for the introduction of cortical hormone side chain was extended to the ▶刘桂兰 9(11)-unsaturated steroid analogue. Thus, starting from 16a,17a-epoxypregn-4-en-11a-ol-3, 20-dione (I), tosylation and elimination of the tosylate group gave 16a, 17a-epoxypregn-4, 9(11)-dien-3, 20dione (II), cleavage of the epoxide ring with hydrobromic acid and debromination by hydrogenolysis gave pregn-4, 9(11)-dien-17a-ol-3, 20-dione (III), then introduction of the 21-acetoxy group gave pregn-4, 9(11)-dien-17a, 21-diol-3, 20-dione 21-acetate (\mathbb{IV}), from which 9a-fluorocortisol (\mathbb{VI}) was obtained by \blacktriangleright Article by known method. The overall yield of (VI) to (I) was 17.4 per cent of theory. An alternative synthesis proceeding through epoxidation of (III) prior to the introduction of 21-acetoxy group was also shown to be workable.

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