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Reaction of 19-Hydroxysteroids with Diethylaminosulfur Trifluoride*

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In an attempt to prepare 19-fluorocholesterol derivative, 19-hydroxycholest-4-en-3-one was treated with excess diethylaminosulfur trifluoride in acetonitrile at reflux, and the structure of a major product (60% yield) was determined by spectroscopy and X-ray crystallography to reveal 10 β -fluoro-5,10-seco-5,19-cyclo-cholest-4-en-3-one. Analogous reactions of androstane derivative afforded the corresponding bicyclo[4.4.1] compound. Under milder reaction conditions, 19-hydroxycholest-4-en-3-one diethylaminosulfinate was secured in 20% yield.

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** 三共分析・代謝研