

Octafluorotoluene CF₃-C₆F₅

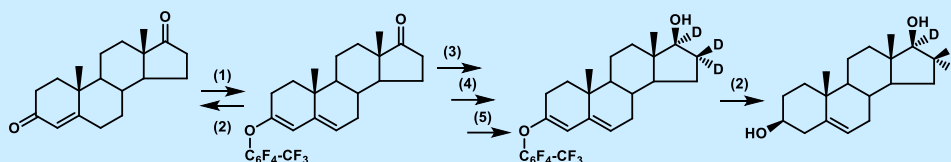
Purity 97%

CAS Number 434-64-0

Molecular Formula C₇F₈

Molecular Weight 236.06

1. Selective protection of steroid skeleton enones by perfluorotolyl enol ethers. The ketone at position 17 does not react. Acid cleaves this ether protecting group. An example of the substitution reaction to the D-isomer for analyzing the blood concentration of Androst-4-ene-3,17-dione.



(1) CF₃-C₆F₅, CsF, DMF, (2) aq-H₂SO₄, THF, 60°C,

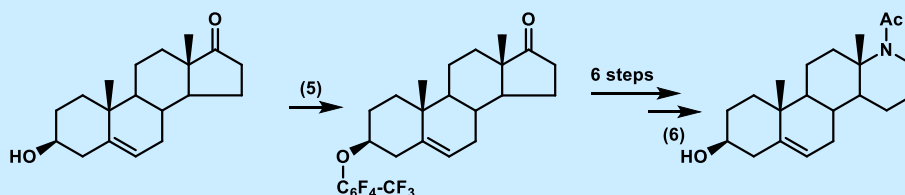
(3) D₂O, (C₇H₁₅)₄NCl, NaOD, CH₃-C₆H₅, 60°C,

(4) NaBD₄, C₂H₅OD, 20°C, (5) H₂O

Application

J. Chem. Soc. Chem. Commun., 1986, p635-636

2. Examples of alcohol group protection of steroid skeleton with sodium hydroxide and deprotection with sodium methoxide.



(5) CF₃-C₆F₅, (C₄H₉)NHSO₄, CH₂Cl₂, aq-NaOH

(6) NaOCH₃, DMF

J. Chem. Soc., Perkin Trans. 1, 1991, p2413-2416

Properties:

Appearance Liquid
Boiling point, °C 104-105

Capacity: -

Packing: -