terpenes
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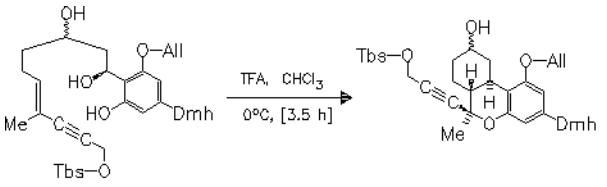
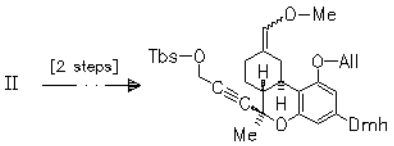
Synthesis of Functionalized Cannabinoids. — The synthesis of non-classical cannabinoids (V) is based on the highly diastereoselective cyclization of triol (I) to afford tricycle (II) as C-9 epimeric mixture in a single step, with the desired stereochemistry at C-6, C-6a, and C-10a. Selective hydrolysis of the enol ether function of tricycle (III), followed by epimerization of the resulting aldehyde and reduction gives alcohol (IV) with the desired configuration at C-9. All three cannabinoids exhibit significantly high cannabinoid receptor affinities. — (HARRINGTON, PAUL E.; STERGIADES, IOANNA A.; ERICKSON, JOY; MAKRIYANNIS, ALEXANDROS; TIUS, MARCUS A.; J. Org. Chem. 65 (2000) 20, 6576-6582; Dep. Chem., Univ. Hawaii, Honolulu, HI 96822, USA; EN)

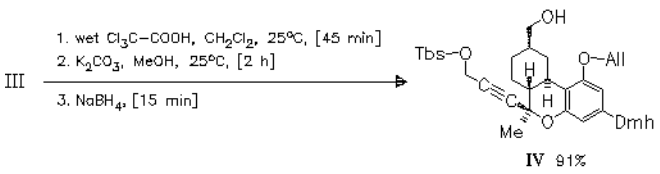


I (1:1 m.d.) II 76% (1:1 m.d.)

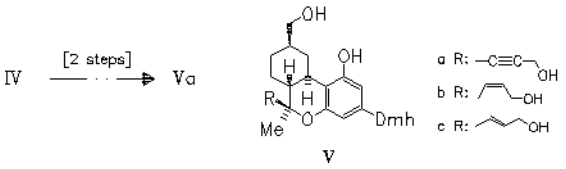
Dmh: $-C(Me)_2-(CH_2)_5-Me$ All: $-CH_2-CH=CH_2$



III (2:1 m.i.)



IV 91%



V