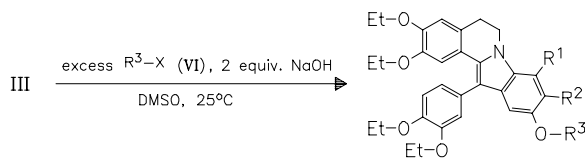
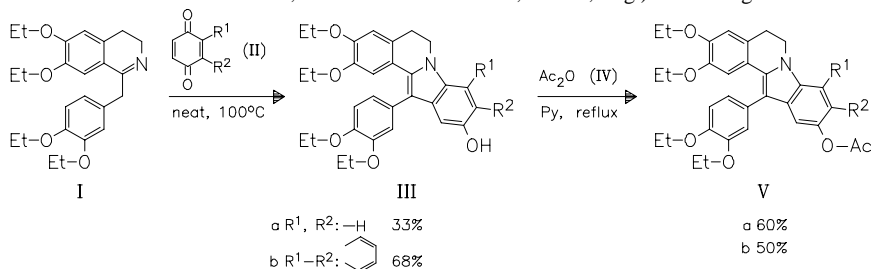


Fused pyridine derivatives

R 0450

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Annellation of Drotaverine by p-Quinones to Form Hydroxyindolo- and Hydroxybenzindoloisoquinoline Derivatives. — The well-known spasmolytic agent drotaverine (I) readily reacts with quinones (II) to form Nenitzescu reaction products, viz. indoloisoquinolines (III), in moderate yield. The compounds (III) are smoothly O-acylated and O-alkylated. Aminomethylation of compound, (IIIb) occurs at the 6-position but fails for compound (IIIa). — (UKHIN*, L. Y.; GRIBANOVA, T. N.; KUZ'MINA, L. G.; Russ. Chem. Bull. 54 (2005) 3, 774-783; Inst. Phys. Org. Chem., Rostov State Univ., Rostov-on-Don 344090, Russia; Eng.) — D. Singer



a R ¹ , R ² : -H ; R ³ : -Me ; X: -I	70%
b R ¹ , R ² : -H ; R ³ : -iPr ; X: -Br	41%
c R ¹ , R ² : -H ; R ³ : -Bn ; X: -Cl	58%
d R ¹ , R ² : -H ; R ³ : -CH ₂ -CH=CH ₂ ; X: -Br	54%
e R ¹ , R ² : -H ; R ³ : -CH ₂ -C≡CH ; X: -Br	67%
f R ¹ -R ² : ; R ³ : -Me ; X: -I	60%
g R ¹ -R ² : ; R ³ : -iPr ; X: -Br	48%

