

**Scheme 3**. Synthesis of azepanone and 3,28-modified lupane derivatives. Reagents and conditions: (a) (i) PCC, CHCl3, 20 °C, 2 h; (b) (i)NH2OH·HCl, NaOAc, EtOH, ∆, 5 h, (ii) SOCl2, 1,4-dioxane, 0 °C, 30 min. (c) Jones reagent, acetone, 0 °C, 2 h; (d) (i) (COCl)2, Et3N, CH2Cl2, 20 °C, 2 h, (ii) imidazole, Et3N, CH2Cl2, ∆, 3 h.