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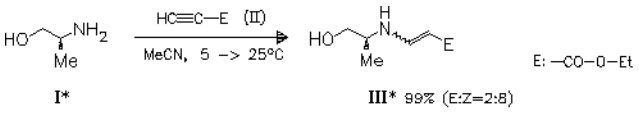
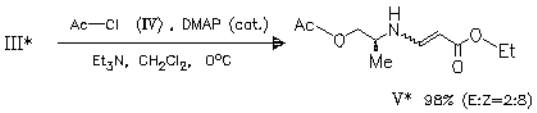
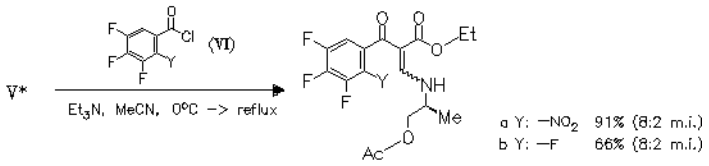
An Improved Synthesis of Levofloxacin. — A new procedure for the preparation of acid (VIII), a precursor of the important antibacterial agent levofloxacin is reported. The method is based on an effective one-pot cyclization of the benzoylacrylates (VII) which, in turn, are prepared in an effective 3-step procedure from (S) -2-amino-1-propanol (I). — (KANG, S. B.; PARK, S.; KIM, Y. H.; KIM, Y.; Heterocycles 45 (1997) 1, 137-145; Div. Appl. Sci., Korea Inst. Sci. Technol., Seoul 130-650, S. Korea; EN)



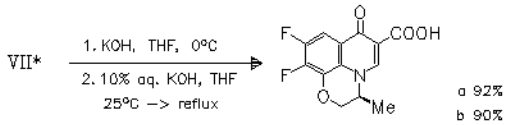
I* III* 99% (E:Z=2:8)



V* 98% (E:Z=2:8)



VII*



VIII*