

圖 29-1 化合物 29 之 MS 圖譜

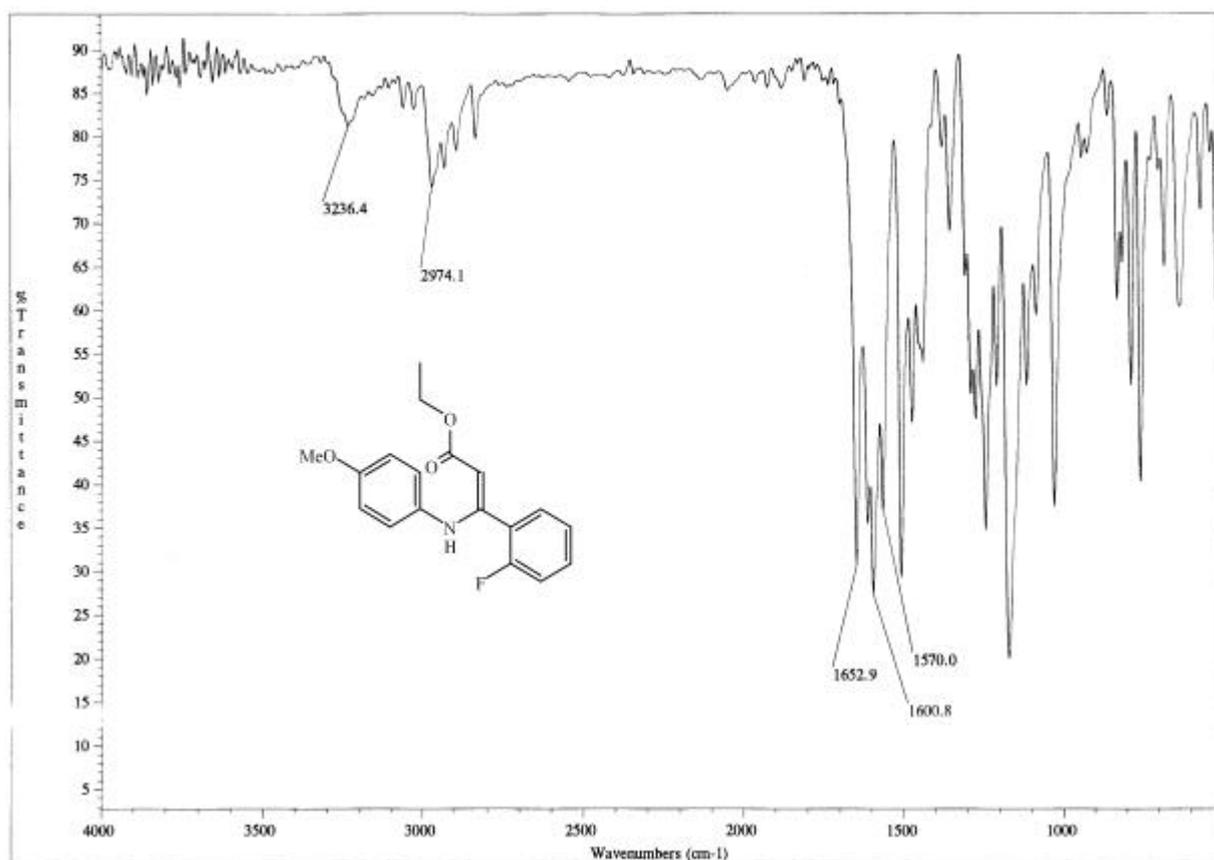


圖 29-2 化合物 29 之 IR 圖譜

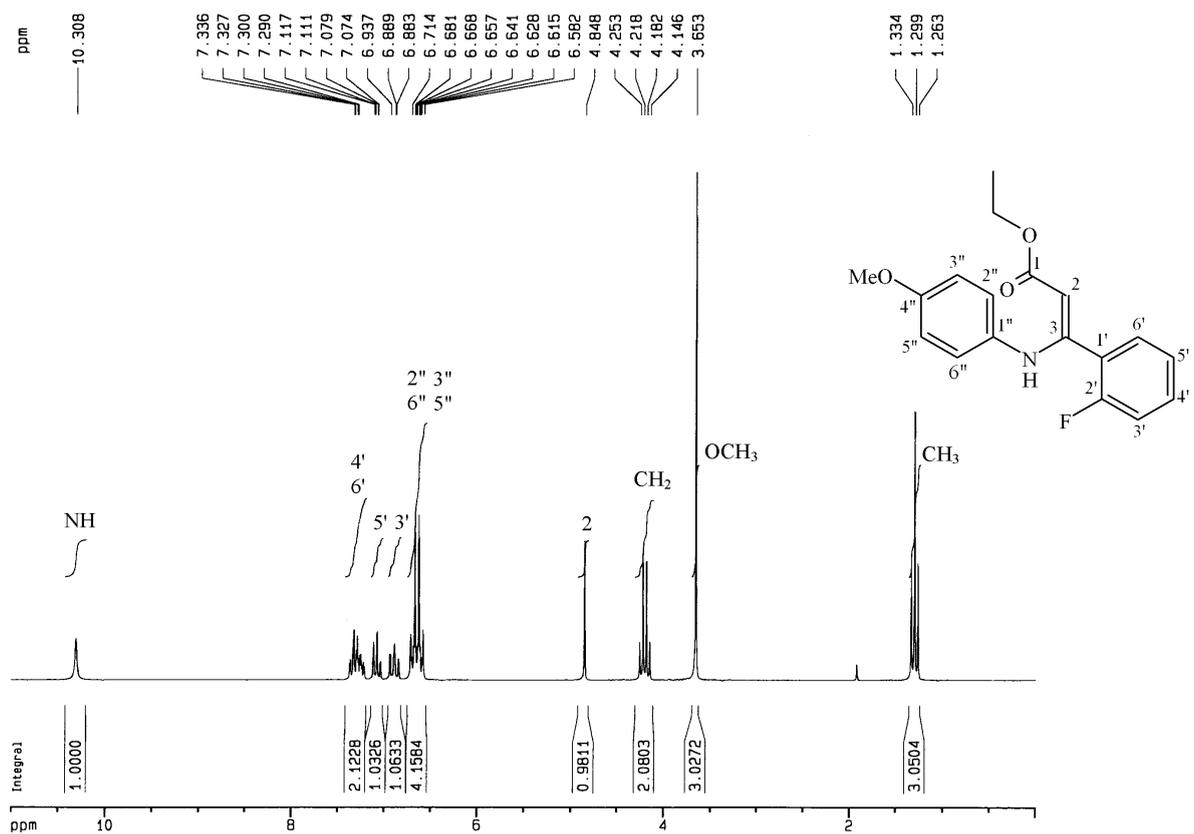


圖 29-3 化合物 29 之 $^1\text{H-NMR}$ (Chloroform- d_1 , 200 MHz)圖譜

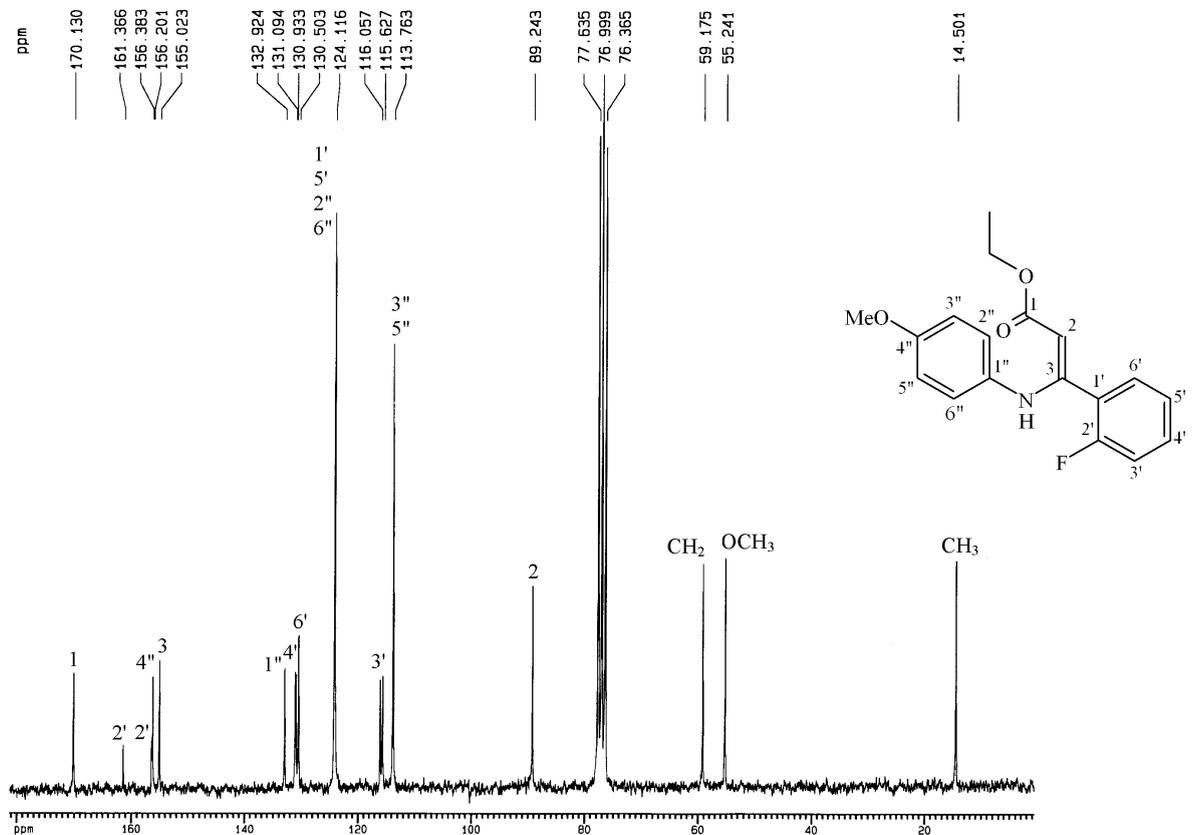


圖 29-4 化合物 29 之 $^{13}\text{C-NMR}$ (Chloroform- d_1 , 50 MHz)圖譜

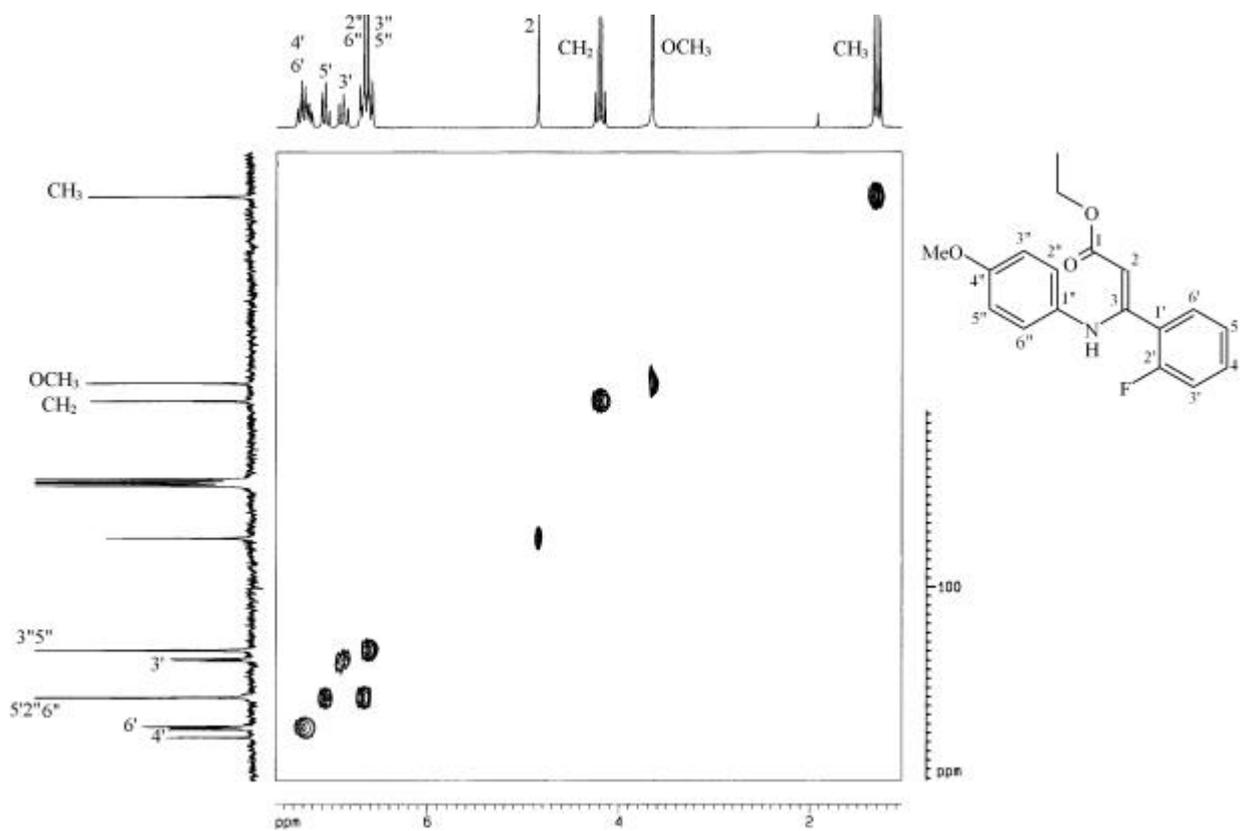


圖 29-5 化合物 29 之 HMQC (Chloroform- d_1 , 200 MHz)圖譜

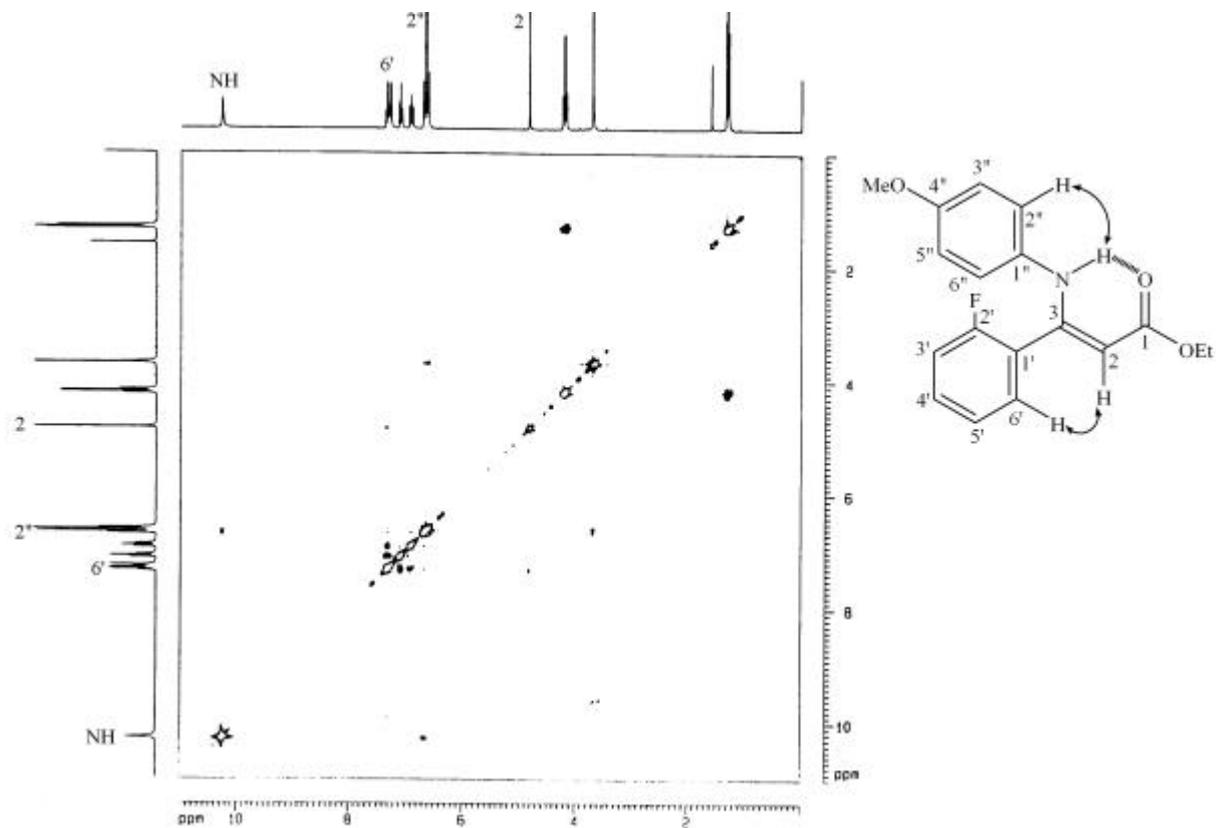


圖 29-6 化合物 29 之 NOESY (Chloroform- d_1 , 300 MHz)圖譜