Two Step Metal Mediated Transformation of Isoxazolidine-5-spirocyclopropanes into Pyridone Derivatives

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SUPPORTING INFORMATION

Contents List:

General Experimental Methods
NMR spectra

Page

S1
S2-S17

General Experimental Methods:

R_f values refer to TLC on 0.25-mm silica gel plates obtained using the eluent indicated. NMR spectra were recorded in CDCl₃ at 200 MHz and 50.3 MHz, respectively; the chemical shifts for ¹H and ¹³C NMR spectra are given in ppm from TMS. Mass spectra (EI, 70 eV) were recorded by direct inlet.

NMR spectra

17 (CDCl₃, 200 MHz)

12
(CDCl₃, 200 MHz)

20

(CDCl₃, 200 MHz)

11
(CDCl₃, 200 MHz)

22

(CDCl₃, 200 MHz)

24

(CDCl₃, 200 MHz)

26

(CDCl₃, 200 MHz)

31
(CDCl₃, 200 MHz)

14

(CDCl₃, 200 MHz)

13

(CDCl₃, 200 MHz)

28

(CDCl₃, 200 MHz)

29

(CDCl₃, 200 MHz)

(CDCl₃, 200 MHz)

13a