REFERENCES


คุณย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย
Silica gel GF 254 / solvent system, chloroform : methanol (95:5)

○ = fluorescent spot under UV light (254 nm) and positive with iodine vapour

Figure 3: TLC chromatogram of ketoconazole in various solvents on photolysis at 15 hrs.

a) in ethylacetate  b) in chloroform

c) in acetone       d) in methanol

e) in chloroform at 0 hr.
Figure 4: The UV spectrum of ketoconazole (in CHCl₃)
Figure 5: The IR spectrum of ketoconazole (KBr disc)
Figure 6: the EIMS spectrum of Ketoconazole
Figure 7: The 500 MHz $^1$H - NMR spectrum of ketoconazole in chloroform - $d$ (Full spectrum)
Figure 8: The 500 MHz H NMR spectrum of Krococazole in chloroform - $p$-Expansion between 2.1 - 3.9 ppm.

[Diagram of NMR spectrum]
Figure 9: The 500 MHz $^1$H - NMR spectrum of ketoconazole in chloroform - $d$ (Expansion between 5.9 - 7.6 ppm)
Figure 10: The 125 MHz $^{13}$C - NMR spectrum of ketoconazole in chloroform - $d$
Figure 11: The UV spectrum of compound A (in CHCl₃)
Figure 12: The IR spectrum of compound A (KBr disc)
Figure 13: the EIMS spectrum of compound A.
Figure 14: The 500 MHz $^1$H - NMR spectrum of compound A in chloroform - $d$ (Full spectrum)
Figure 15: The 500 MHz $^1$H - NMR spectrum of compound A in chloroform - d (Expansion between 2.1 - 4.4 ppm)
Figure 16: The 500 MHz $^1$H - NMR spectrum of compound A in chloroform - $d$ (Expansion between 4.7 - 8.1 ppm)
Figure 17: The 125 MHz $^{13}$C - NMR spectrum of compound A in chloroform - $d$
Figure 18: The $^{13}$C-DEPT spectrum of compound A in chloroform - d

a) $^{13}$C DEPT - 135  b) Normal spectrum
Figure 19: The 500 MHz $^1H\cdots^1H$ COSY spectrum of compound A in chloroform - $d$ (Full spectrum)
Figure 20: The 500 MHz $^1$H - $^1$H COSY spectrum of compound A in chloroform - d

(Expansion between 1.0 - 4.0 ppm)
Figure 21: The 500 MHz $^1$H - $^1$H COSY spectrum of compound A in chloroform - $d$

(Expansion between 3.9 - 4.9 ppm)
Figure 22: The 500 MHz $^1$H - $^1$H COSY spectrum of compound A in chloroform - $d$

(Expansion between 6.8 - 8.2 ppm)
Figure 23: The 125 MHz $^{13}$C - $^1$H COSY spectrum of compound A in chloroform - d (Full spectrum)
Figure 24: The 125 MHz $^{13}$C - $^1$H COSY spectrum of compound A in chloroform - $d$

(Expansion: X scale between 20-80 ppm and Y scale between 2.0 - 4.8 ppm)
Figure 25: The 125 MHz $^{13}$C - $^1$H COSY spectrum of compound A in chloroform - d

(Expansion: X scale between 100 - 140 ppm and Y scale between 6.6 - 8.4 ppm)
Figure 26: The 500 MHz COLOC spectrum (at 4 Hz) of compound A in chloroform - d (Full spectrum)
Figure 27: The 500 MHz COLOC spectrum of compound A (at 4 Hz) in chloroform - d

(Expansion: X scale between 60 -74 ppm and Y scale between 4.0 -4.7 ppm)
Figure 28: The 500 MHz COLOC spectrum of compound A (at 4 Hz) in chloroform - d

(Expansion: X scale between 111-141 ppm and Y scale between 6.8-7.6 ppm)
Figure 29: The 500 MHz COLOC spectrum (at 8 Hz) of compound A in chloroform - d (Full spectrum).
Figure 30: The 500 MHz COLOC spectrum of compound A (at 8 Hz) in chloroform - d

(Expansion: X scale between 35 - 60 ppm and Y scale between 2.9 - 3.9 ppm)
Figure 31: The 500 MHz COLOC spectrum of compound A (at 8 Hz) in chloroform - $d$

(Expansion: X scale between 99 - 135 ppm and Y scale between 4.0 - 4.6 ppm)
Figure 32: The 500 MHz COLOC spectrum of compound A (at 8 Hz) in chloroform - d

(Expansion: X scale between 110 - 160 ppm and Y scale between 6.7 - 8.4 ppm)
Figure 33: The 500 MHz COLOC spectrum (at 12 Hz) of compound A in chloroform - d (Full spectrum)
Figure 34: The 500 MHz COLOC spectrum of compound A (at 12 Hz) in chloroform- $d$

(Expansion: X scale between 39-110 ppm and Y scale between 3.7 - 4.8 ppm)
Figure 35: The 500 MHz COLOC spectrum of compound A (at 12 Hz) in chloroform - d

(Expansion: X scale between 112 - 158 ppm and Y scale between 6.7 - 7.7 ppm)
VITA

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