Copies of ¹H & ¹³C NMR spectra

Novel thieno[2,3-*d*]pyrimidines: Their design, synthesis, crystal structure analysis and pharmacological evaluation

Raju Adepu,^a D. Rambabu,^{a,b} Bagineni Prasad,^a Chandana Lakshmi T. Meda,^a Ajit Kandale,^a G. Rama Krishna,^c C. Malla Reddy,^c Lakshmi N. Chennuru,^d Kishore V.L.Parsa,^{*,a} and Manojit Pal^{*,a}

^aInstitute of Life Sciences, University of Hyderabad Campus, Gachibowli, Hyderabad, 500046, India.

^bDepartment of Chemistry, K. L. University, Vaddeswaram, Guntur 522 502, Andhra Pradesh, India. ^cDepartment of Chemical Sciences, Indian Institute of Science Education and Research, Kolkata, West Bengal, 741252, India.

^dDaicel Chiral Technologies (India) Pvt Ltd, IKP Knowledge Park, Hyderabad, India. E-mail: manojitpal@rediffmail.com



Fig.1: ¹H NMR spectra of compound **5a** (CDCl₃, 400 MHz)



Fig.2: ¹³C NMR spectra of compound **5a** (CDCl₃, 100 MHz)



Fig.3: ¹H NMR spectra of compound **5b** (CDCl₃, 400 MHz)



Fig.4: ¹³C NMR spectra of compound **5b** (CDCl₃, 100 MHz)



Fig.5: ¹H NMR spectra of compound **5cc** (DMSO- d_6 , 400 MHz)



Fig.6: ¹³C NMR spectra of compound **5cc** (CDCl₃, 100 MHz)



Fig.7: ¹H NMR spectra of compound **5c** (CDCl₃, 400 MHz)



Fig.8: ¹³C NMR spectra of compound **5c** (CDCl₃, 100 MHz)



Fig.9: ¹H NMR spectra of compound **5dd** (CDCl₃, 400 MHz)





Fig.11: ¹H NMR spectra of compound **5d** (CDCl₃, 400 MHz)



Fig.12: ¹³C NMR spectra of compound **5d** (CDCl₃, 100 MHz)



Fig.13: ¹H NMR spectra of compound **6a** (CDCl₃, 400 MHz)



Fig.14: ¹³C NMR spectra of compound **6a** (CDCl₃, 100 MHz)





Fig.16: ¹³C NMR spectra of compound **6b** (CDCl₃, 100 MHz)



Fig.17: ¹H NMR spectra of compound **6c** (CDCl₃, 400 MHz)



Fig.18: ¹³C NMR spectra of compound **6c** (CDCl₃, 100 MHz)





Fig.20: ¹³C NMR spectra of compound **6d** (CDCl₃, 100 MHz)



Fig.21: ¹H NMR spectra of compound **7a** (CDCl₃, 400 MHz)





Fig.23: ¹H NMR spectra of compound **7b** (CDCl₃, 400 MHz)





Fig.25: ¹H NMR spectra of compound **7c** (CDCl₃, 400 MHz)





Fig.27: ¹H NMR spectra of compound **7d** (CDCl₃, 400 MHz)



Fig.28: ¹³C NMR spectra of compound **7d** (CDCl₃, 100 MHz)



Fig.29: ¹H NMR spectra of compound **8a** (CDCl₃, 400 MHz)





Fig.31: ¹H NMR spectra of compound **8b** (CDCl₃, 400 MHz)





Fig.33: ¹H NMR spectra of compound **8c** (CDCl₃, 400 MHz)



Fig.34: ¹³C NMR spectra of compound **8c** (CDCl₃, 100 MHz)









Fig.38: ¹³C NMR spectra of compound **9a** (CDCl₃, 100 MHz)



Fig.39: ¹H NMR spectra of compound **9b** (CDCl₃, 400 MHz)



Fig.40: ¹³C NMR spectra of compound **9b** (CDCl₃, 100 MHz)



Fig.41: ¹H NMR spectra of compound **9c** (CDCl₃, 400 MHz)



Fig.42: ¹³C NMR spectra of compound **9c** (CDCl₃, 100 MHz)



Fig.43: ¹H NMR spectra of compound **9d** (CDCl₃, 400 MHz)



Fig.44: ¹³C NMR spectra of compound **9d** (CDCl₃, 100 MHz)



Fig.45: ¹H NMR spectra of compound **10a** (CDCl₃, 400 MHz)



Fig.46: ¹³C NMR spectra of compound **10a** (CDCl₃, 100 MHz)





Fig.48: ¹³C NMR spectra of compound **10b** (CDCl₃, 100 MHz)







Fig.51: ¹H NMR spectra of compound **10d** (CDCl₃, 400 MHz)



Fig.52: ¹³C NMR spectra of compound **10d** (CDCl₃, 100 MHz)



Fig.53: ¹H NMR spectra of compound **11a** (CDCl₃, 400 MHz)







Fig.56: ¹³C NMR spectra of compound **11b** (CDCl₃, 100 MHz)



Fig.57: ¹H NMR spectra of compound **11c** (CDCl₃, 400 MHz)



Fig.58: ¹³C NMR spectra of compound **11c** (CDCl₃, 100 MHz)







Fig.61: ¹H NMR spectra of compound **12** (DMSO-*d*₆, 400 MHz)



Fig.62: ¹³C NMR spectra of compound **12** (DMSO- d_6 , 100 MHz)



Fig.63: ¹H NMR spectra of compound **13** (CDCl₃, 400 MHz)





Fig.65: ¹H NMR spectra of compound **14** (DMSO-*d*₆, 400 MHz)



Fig.66: ¹³C NMR spectra of compound **14** (DMSO-*d*₆, 100 MHz)



Fig.67: ¹H NMR spectra of compound **15** (CDCl₃, 400 MHz)



Fig.68: ¹³C NMR spectra of compound **15** (CDCl₃, 100 MHz)



Fig.69: ¹H NMR spectra of compound **16** (CDCl₃, 400 MHz)

