

Supporting Information for DOI: 10.1055/s-0037-1611723 © Georg Thieme Verlag KG Stuttgart · New York 2019



SUPPORTING INFORMATION

for

Synthesis of 1-Azaspiro[4.5]deca-1,3-dienes from *N*-Propargylic β-Enaminones in Basic Medium

Eda Karadeniz and Metin Zora^{*}

Department of Chemistry, Middle East Technical University, 06800 Ankara, Turkey

Table of Contents

^{*}Corresponding author. Tel: +90-312-2103213; Fax: +90-312-2103200; E-mail: zora@metu.edu.tr

Copies of ¹H and ¹³C NMR spectra



Figure S1. ¹H NMR spectrum of compound 1a.



Figure S2. ¹³C NMR spectrum of compound 1a.



Figure S3. ¹H NMR spectrum of compound 1b.



Figure S4. ¹³C NMR spectrum of compound 1b.



Figure S5. ¹H NMR spectrum of compound **1c**.



Figure S6. ¹³C NMR of compound 1c.



Figure S7. ¹H NMR spectrum of compound 1d.



Figure S8. ¹³C NMR spectrum of compound 1d.



Figure S9. ¹H NMR spectrum of compound 1e.



Figure S10. ¹³C NMR spectrum of compound 1e.



Figure S11. ¹H NMR spectrum of compound 1f.



Figure S12. ¹³C NMR spectrum of compound 1f.



Figure S13. ¹H NMR spectrum of compound 1g.



Figure S14. ¹³C NMR spectrum of compound 1g.



Figure S15. ¹H NMR spectrum of compound 1h.



Figure S16. ¹³C NMR spectrum of compound 1h.



Figure S17. ¹H NMR spectrum of compound 1i.



Figure S18. ¹³C NMR spectrum of compound 1i.



Figure S19. ¹H NMR spectrum of compound 1j.



Figure S20. ¹³C NMR spectrum of compound 1j.



Figure S21. ¹H NMR spectrum of compound 1k.



Figure S22. ¹³C NMR spectrum of compound 1k.



Figure S23. ¹H NMR spectrum of compound 11.



Figure S24. ¹³C NMR spectrum of compound 11.



Figure S25. ¹H NMR spectrum of compound 1m.



Figure S26. ¹³C NMR spectrum of compound 1m.



Figure S27. ¹H NMR spectrum of compound 1n.



Figure S28. ¹³C NMR spectrum of compound 1n.



Figure S29. ¹H NMR spectrum of compound 10.



Figure S30. ¹³C NMR spectrum of compound 10.



Figure S31. ¹H NMR spectrum of compound 1p.



Figure S32. ¹³C NMR spectrum of compound 1p.



Figure S33. ¹H NMR spectrum of compound 1q.



Figure S34. ¹³C NMR spectrum of compound 1q.



Figure S35. ¹H NMR spectrum of compound 5a.



Figure S36. ¹³C NMR spectrum of compound 5a.



Figure S37. ¹H NMR spectrum of compound 5b.



Figure S38. ¹³C NMR spectrum of compound 5b.



Figure S39. ¹H NMR spectrum of compound 5c.



Figure S40. ¹³C NMR spectrum of compound 5c.



Figure S41. ¹H NMR spectrum of compound 3a.



Figure S42. ¹³C NMR spectrum of compound 3a.



Figure S43. ¹H NMR spectrum of compound 3b.



Figure S44. ¹³C NMR spectrum of compound 3b.



Figure S45. ¹H NMR spectrum of compound 3c.



Figure S46. ¹³C NMR spectrum of compound 3c.



Figure S47. ¹H NMR spectrum of compound 3d.



Figure S48. ¹³C NMR spectrum of compound 3d.



Figure S49. ¹H NMR spectrum of compound 3e.



Figure S50. ¹³C NMR spectrum of compound 3e.



Figure S51. ¹H NMR spectrum of compound 3f.



Figure S52. ¹³C NMR spectrum of compound 3f.



Figure S53. ¹H NMR spectrum of compound 3g.



Figure S54. ¹³C NMR spectrum of compound 3g.



Figure S55. ¹H NMR spectrum of compound 3h.



Figure S56. ¹³C NMR spectrum of compound 3h.



Figure S57. ¹H NMR spectrum of compound 3i.



Figure S58. ¹³C NMR spectrum of compound 3i.



Figure S59. ¹H NMR spectrum of compound 3j.



Figure S60. ¹³C NMR spectrum of compound 3j.



Figure S61. ¹H NMR spectrum of compound 3k.



Figure S62. ¹³C NMR spectrum of compound 3k.



Figure S63. ¹H NMR spectrum of compound 3l.



Figure S64. ¹³C NMR spectrum of compound 3l.



Figure S65. ¹H NMR spectrum of compound 3m.



Figure S66. ¹³C NMR spectrum of compound 3m.



Figure S67. ¹H NMR spectrum of compound 3n.



Figure S68. ¹³C NMR spectrum of compound **3n**.



Figure S69. ¹H NMR spectrum of compound 30.



Figure S70. ¹³C NMR spectrum of compound 30.



Figure S71. ¹H NMR spectrum of compound 3p.



Figure S72. ¹³C NMR spectrum of compound **3p**.



Figure S73. ¹H NMR spectrum of compound 3q.



Figure S74. ¹³C NMR spectrum of compound 3q.



Figure S75. ¹H NMR spectrum of compound 6a.



Figure S76. ¹³C NMR spectrum of compound 6a.



Figure S77. ¹H NMR spectrum of compound 6b.



Figure S78. ¹³C NMR spectrum of compound 6b.



Figure S79. ¹H NMR spectrum of compound 6c.



Figure S80. ¹³C NMR spectrum of compound 6c.