Supplementary Material

An efficient and direct synthesis of substituted 2-phenylquinoline-4-carboxamides from 3-substituted-3-hydroxyindolin-2-ones

Keshri Nath Tiwari,* Rinku Choubey, Saumya Shukla, and Parul Gautam

Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research (NIPER), ITI Compound, Raebareli 229 010, India Email: <u>keshri.tiwari@niperraebareli.edu.in</u>

Contents

• Copies of ¹H and ¹³C NMR spectra of compounds **4a-f**



Fig. 1. ¹H NMR of 2-phenylquinoline-4-carboxamide (4a) (DMSOd₆, 400 MHz)

[©]ARKAT USA, Inc



Fig. 2. ¹³C NMR of 2-phenylquinoline-4-carboxamide (4a) (DMSOd₆, 100 MHz)



Fig. 3. ¹H NMR of 2-(*p*-tolyl)quinoline-4-carboxamide (**4b**) (DMSOd₆, 400 MHz)



Fig. 4. ¹³C NMR of 2-(*p*-tolyl)quinoline-4-carboxamide (4b) (DMSOd₆, 100 MHz)





Fig. 5. ¹H NMR of 2-(4-methoxyphenyl)quinoline-4-carboxamide (4c) (DMSOd₆, 400 MHz)



Fig. 6. ¹³C NMR of 2-(4-methoxyphenyl)quinoline-4-carboxamide (4c) (DMSOd₆, 100 MHz)



Fig. 7. ¹H NMR of 6-chloro-2-phenylquinoline-4-carboxamide (**4d**) (DMSOd₆, 400 MHz)

[©]ARKAT USA, Inc



Fig. 8. ¹³C NMR of 6-chloro-2-phenylquinoline-4-carboxamide (4d) (DMSOd₆, 100 MHz)

©ARKAT USA, Inc



Fig. 9. ¹H NMR of 6-chloro-2-(*p*-tolyl)quinoline-4-carboxamide (**4e**) (DMSOd₆, 400 MHz)

Page S10



Fig. 10. ¹³C NMR of 6-chloro-2-(*p*-tolyl)quinoline-4-carboxamide (4e) (DMSOd₆, 100 MHz)

Page S11 [©]ARKAT USA, Inc



Fig. 11. ¹H NMR of 6-chloro-2-(4-methoxyphenyl)quinoline-4-carboxamide (**4f**) (DMSOd₆, 400 MHz)



Fig. 12. ¹³C NMR of 6-chloro-2-(4-methoxyphenyl)quinoline-4-carboxamide (**4f**) (DMSOd₆, 100 MHz)