Supporting Information

Unexpected Iodine-Promoted Aerobic Oxidation of α-Cyano-δ-Keto Esters: A Facile Synthesis of α,δ-Dicarbonyl Esters

Hui Xu, Ming-Yue Weng, Hong Chen, Ze Zhang*

School of Biological and Chemical Engineering, Anhui Polytechnic University Wuhu 241000, P. R. China
E-mail: zhangze@ustc.edu.cn
NMR Spectra of products 2 and 3a

Figure S1. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2a

Figure S2. $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 2a
Figure S3. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2b

Figure S4. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2c
Figure S5. $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 2c

Figure S6. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2d
Figure S7. $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 2d

Figure S8. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2e
Figure S9. $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 2e

Figure S10. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2f
Figure S11. $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 2f

Figure S12. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2g
Figure S13. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2h

Figure S14. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2i
Figure S15. $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 2i

Figure S16. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2j
Figure S17. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2k

Figure S18. $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 2k
**Figure S19.** $^1$H NMR (500 MHz, CDCl$_3$) of compound 2l

**Figure S20.** $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 2l
Figure S21. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2m

Figure S22. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2n
Figure S23. $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 2n

Figure S24. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2o
Figure S25. $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 2o

Figure S26. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2p
Figure S27. $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 2p

Figure S28. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2q
Figure S29. $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 2q

Figure S30. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2r
Figure S31. $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 2r

Figure S32. $^1$H NMR (500 MHz, CDCl$_3$) of compound 2s
Figure S33. $^{13}$C NMR (125 MHz, CDCl$_3$) of compound 2s

Figure S34. $^1$H NMR (500 MHz, CDCl$_3$) of compound 3a