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Figure S1.1 ESI-MS spectrum of compound 1



Figure S1.2 ¹H NMR spectrum of compound 1 (600 MHz, DMSO-d6)

(δ1.88 was signal of the impurity acetic acid)



Figure S1.3 ¹³C NMR spectrum of compound 1 (150 MHz, DMSO-d6)





Figure S2.1 ESI-MS spectrum of compound 2



Figure S2.2 ¹H NMR spectrum of compound 2 (600 MHz, DMSO-d6)

(δ3.49, 1.12 were signals of ethanol solvent)



Figure S2.3 ¹³C NMR spectrum of compound 2 (150 MHz, DMSO-d6)

(δ56.49, 19.02 were signals of ethanol solvent)



Figure S3.1 ESI-MS spectrum of compound 3



Figure S3.2 ¹H NMR spectrum of compound 3 (600 MHz, DMSO-d6)

(δ3.50, 1.12 were signals of ethanol solvent)



Figure S3.3 ¹³C NMR spectrum of compound 3 (150 MHz, DMSO-d6)



(δ56.49, 19.03 were signals of ethanol solvent)

Figure S4.1 ESI-MS spectrum of compound 4



Figure S4.2 ¹H NMR spectrum of compound 4 (600 MHz, DMSO-d6)



Figure S4.3 ¹³C NMR spectrum of compound 4 (150 MHz, DMSO-d6)



Figure S5.1 ESI-MS spectrum of compound 5



Figure S5.2 ¹H NMR spectrum of compound 5 (600 MHz, DMSO-d6)

(δ3.50, 1.11 were signals of ethanol solvent)



Figure S5.3 ¹³C NMR spectrum of compound 5 (150 MHz, DMSO-d6)

(556.49, 19.03 were signals of ethanol solvent)



Figure S6.1 ESI-MS spectrum of compound 6



Figure S6.2 ¹H NMR spectrum of compound 6 (600 MHz, DMSO-d6)

(δ3.51, 1.12 were signals of ethanol solvent)



Figure S6.3 ¹³C NMR spectrum of compound 6 (150 MHz, DMSO-d6)

(δ56.49, 19.03 were signals of ethanol solvent)



Figure S7.1 ESI-MS spectrum of compound 7



Figure S7.2 ¹H NMR spectrum of compound 7 (600 MHz, DMSO-d6)

(δ3.45, 1.05 were signals of ethanol solvent)









Figure S8.1 ESI-MS spectrum of compound 8



Figure S8.2 ¹H NMR spectrum of compound 8 (600 MHz, DMSO-d6)

(δ3.50, 1.11 were signals of ethanol solvent)



Figure S8.3 ¹³C NMR spectrum of compound 8 (150 MHz, DMSO-d6)

(δ56.49, 19.02 were signals of ethanol solvent)



Figure S9.1 ESI-MS spectrum of compound 9



Figure S9.2 ¹H NMR spectrum of compound 9 (600 MHz, DMSO-d6)





Figure S9.3 ¹³C NMR spectrum of compound 9 (150 MHz, DMSO-d6)

Figure S10.1 ESI-MS spectrum of compound 10



Figure S10.2 ¹H NMR spectrum of compound 10 (600 MHz, DMSO-d6)

(δ3.49, 1.10 were signals of ethanol solvent)



Figure S10.3 ¹³C NMR spectrum of compound 10 (150 MHz, DMSO-d6)

(δ56.51, 19.03 were signals of ethanol solvent)



Figure S11.1 ESI-MS spectrum of compound 11



Figure S11.2 ¹H NMR spectrum of compound 11 (600 MHz, DMSO-d6)







Figure S12.1 ESI-MS spectrum of compound 12



Figure S12.2 ¹H NMR spectrum of compound 12 (600 MHz, DMSO-d6)

(δ3.45, 1.06 were signals of ethanol solvent)



Figure S12.3 ¹³C NMR spectrum of compound 12 (150 MHz, DMSO-d6)

(δ56.50, 19.03 were signals of ethanol solvent)



Figure S13.1 ESI-MS spectrum of compound 13



Figure S13.2 ¹H NMR spectrum of compound 13 (600 MHz, DMSO-d6)

(δ3.50, 1.12 were signals of ethanol solvent)



Figure S13.3 ¹³C NMR spectrum of compound 13 (150 MHz, DMSO-d6)





Figure S14.1 ESI-MS spectrum of compound 14



Figure S14.2 HR-ESI-MS spectrum of compound 14



Figure S14.3 ¹H NMR spectrum of compound 14 (600 MHz, DMSO-d6)



Figure S14.4 ¹³C NMR spectrum of compound 14 (150 MHz, DMSO-d6)