Supporting Information for

Synthesis of new fluorescent pyrylium dyes and study

of their interaction with N-protected amino acids

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NMR and HRMS spectra

Compound 1a.



Figure S1 ¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 1a.

Compound 1b.



Figure S2 1 H NMR (CDCl₃) (A), 13 C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 1b.

Compound 1c.



Figure S3 ¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 1c.

Compound 2a.



Figure S4 ¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 2a.

Compound 2b.



Figure S5 1 H NMR (CDCl₃) (A), 13 C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 2b.

Compound 2c.



Figure S6 ¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 2c.

Compound 3a.



Figure S7 ¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 3a.

Compound 3b.



Figure S8 ¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 3b.

Compound 3c.



Figure S9 ¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 3c.

Compound 4a.



Figure S10 ¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 4a.



Figure S11 ¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 4b.

Compound 4c.



Figure S12 ¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 4c.

A







Figure S14. ¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 5b.



Figure S15. ¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 5c.

Compound 6a.



Figure S16¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 6a.



Figure S17¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 6b.

Compound 6c.



Figure S18 ¹H NMR (CDCl₃) (A), ¹³C NMR (CDCl₃) (B) and HRMS (C) spectra of compound 6c.

Compound 7.



Figure S19¹H NMR (CD₃CN-*d*₃) (A), ¹³C NMR (CD₃CN-*d*₃) (B) and HRMS (C) spectra of compound 7.



Figure S20¹H NMR (DMSO-*d*₆) (A), ¹³C NMR (DMSO-*d*₆) (B) and HRMS (C) spectra of compound 8a.



Figure S21 ¹H NMR (DMSO- d_6) (A), ¹³C NMR (DMSO- d_6) (B) and HRMS (C) spectra of compound 8b.

Compound 8c.



Figure S22 ¹H NMR (DMSO- d_6) (A), ¹³C NMR (DMSO- d_6) (B) and HRMS (C) spectra of compound 8c.

Compound 9a.



Figure S23 ¹H NMR (DMSO- d_6) (A), ¹³C NMR (DMSO- d_6) (B) and HRMS (C) spectra of compound 9a.

Compound 9b.



Figure S24 ¹H NMR (DMSO-*d*₆) (A), ¹³C NMR (DMSO-*d*₆) (B) and HRMS (C) spectra of compound 9b.

Compound 9c.



Figure S25 ¹H NMR (DMSO-*d*₆) (A), ¹³C NMR (DMSO-*d*₆) (B) and HRMS (C) spectra of compound 9c.