Intracomplex general acid/base catalyzed cleavage of RNA phosphodiester bonds: the leaving group effect

Supporting information

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Contents

$^1$H NMR spectrum of $N_2^2$-[$N^4,N^7,N^{10}$-tris(tert-butoxycarbonyl)-1,4,7,10-tetraazacyclododecan-1-yl]ethyl-$N^4,N^6$-dimethylmelamine (1) S3

$^{13}$C NMR spectrum of $N_2^2$-[$N^4,N^7,N^{10}$-tris(tert-butoxycarbonyl)-1,4,7,10-tetraazacyclododecan-1-yl]ethyl-$N^4,N^6$-dimethylmelamine (1) S6

$^1$H NMR spectrum of $N_2^2$-[2-(1,4,7,10-tetraazacyclododecan-1-yl)ethyl]-$N^4,N^6$-dimethylmelamine (2) S10

$^{13}$C NMR spectrum of $N_2^2$-[2-(1,4,7,10-tetraazacyclododecan-1-yl)ethyl]-$N^4,N^6$-dimethylmelamine (2) S12

UV spectrum of $N_2^2$-[2-(1,4,7,10-tetraazacyclododecan-1-yl)ethyl]-$N^4,N^6$-dimethylmelamine (2) S15

Figure S1: HPLC chromatogram of $N_2^2$-[2-(1,4,7,10-tetraazacyclododecan-1-yl)ethyl]-$N^4,N^6$-dimethylmelamine (2) S16

$^1$H NMR spectrum of Uridine-3´-(2-cyanoethyl)phosphate (4c) S17

$^{13}$C NMR spectrum of Uridine-3´-(2-cyanoethyl)phosphate (4c) S21

$^{31}$P NMR spectrum of Uridine-3´-(2-cyanoethyl)phosphate (4c) S24

UV spectrum of Uridine-3´-(2-cyanoethyl)phosphate (4c) S26
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Figure S1 HPLC chromatogram of compound 2 [Thermo ODS hypersil column (250 × 4.6 mm, 5 μm); flow rate = 1.0 mL min⁻¹; 60 mmol L⁻¹ acetate buffer (pH = 4.3) and a linear gradient of 0 to 40% of MeCN during 30 min, after which 40% MeCN for 10 min; λ = 250 nm].