Supporting Information

to

Practical synthesis of *N*-(di-*n*-butylamino)methylene-protected 2-aminopurine riboside phosphoramidite for RNA solid-phase synthesis

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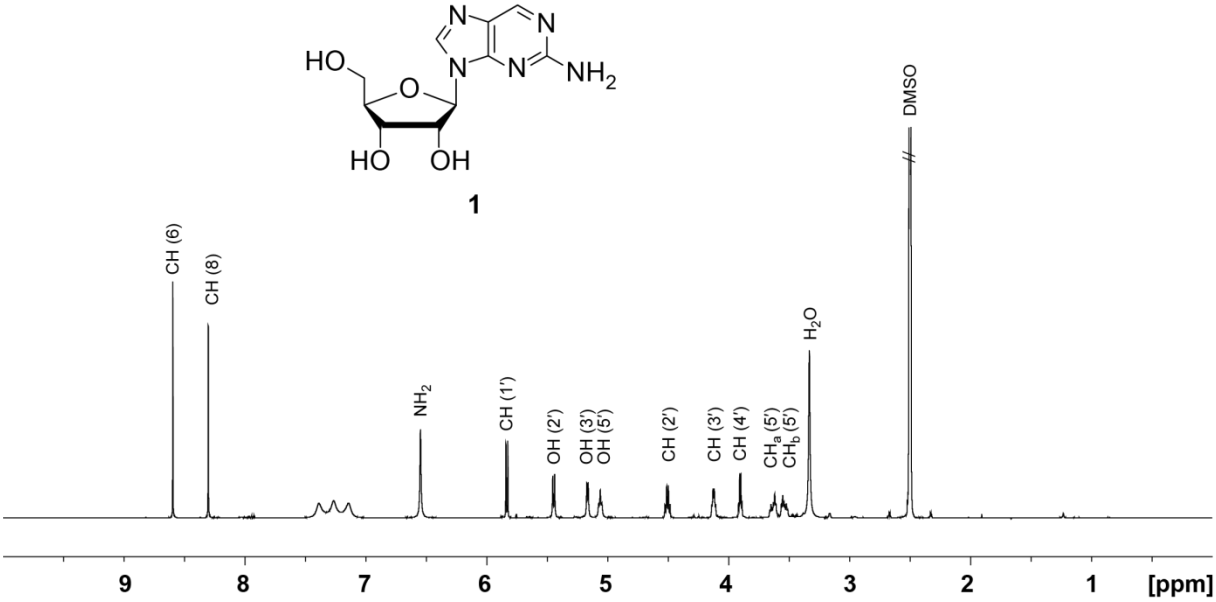
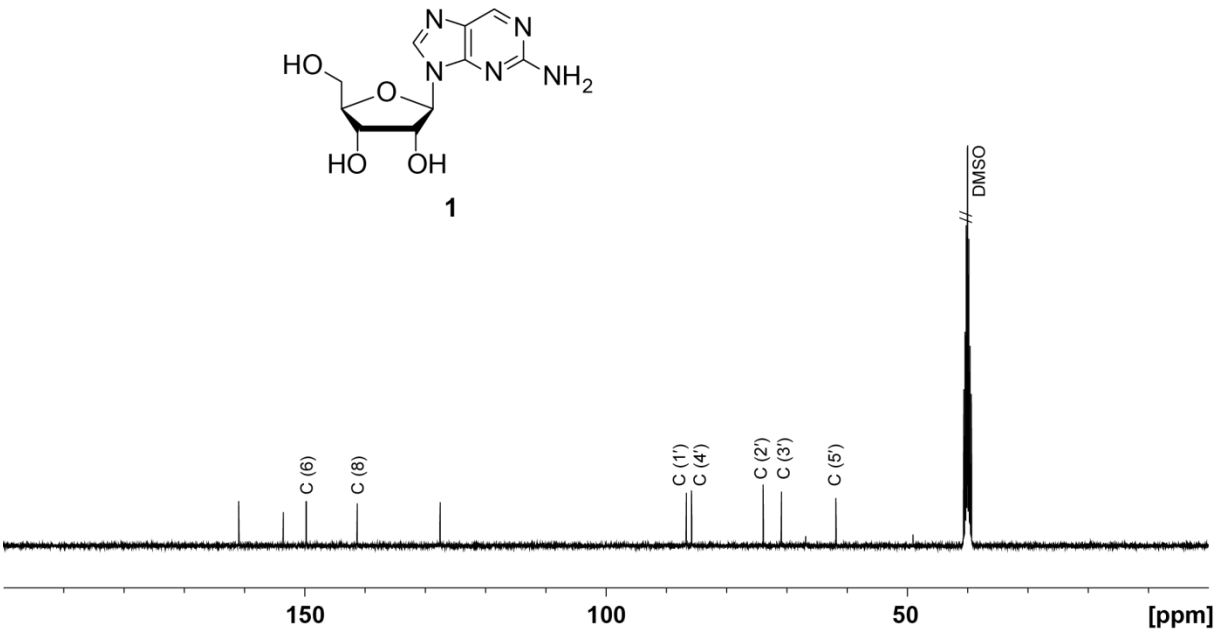
Contents

NMR spectra of compound 1

^{1}H-NMR (400 MHz, d_6-DMSO)

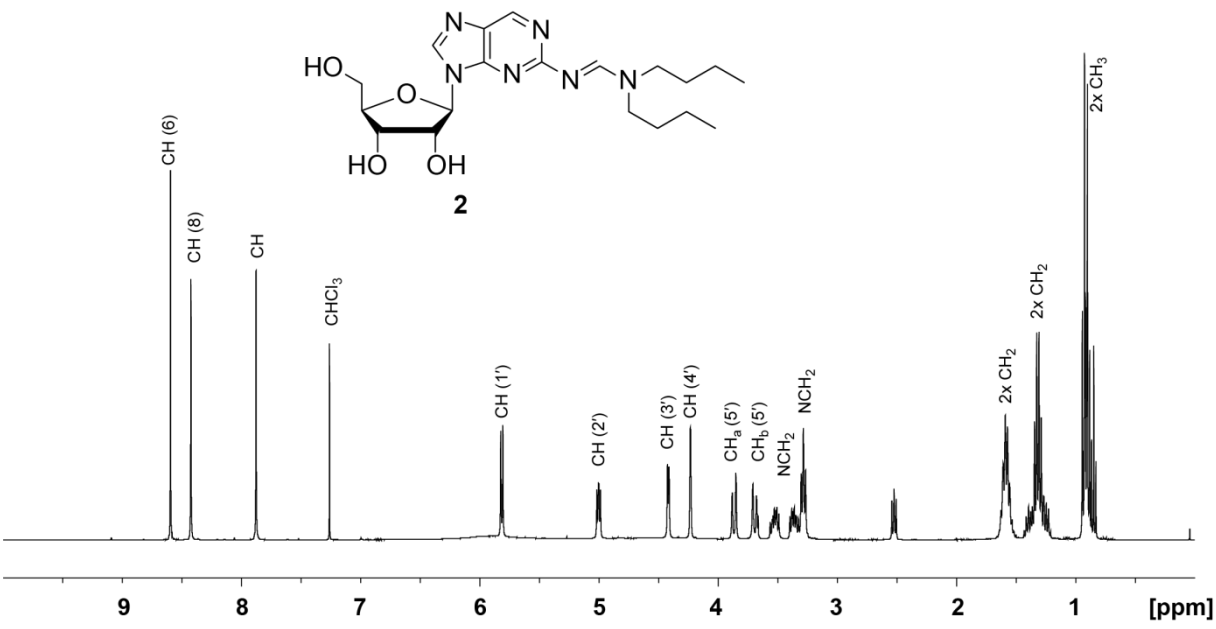


^{13}C-NMR (100 MHz, d_6-DMSO)

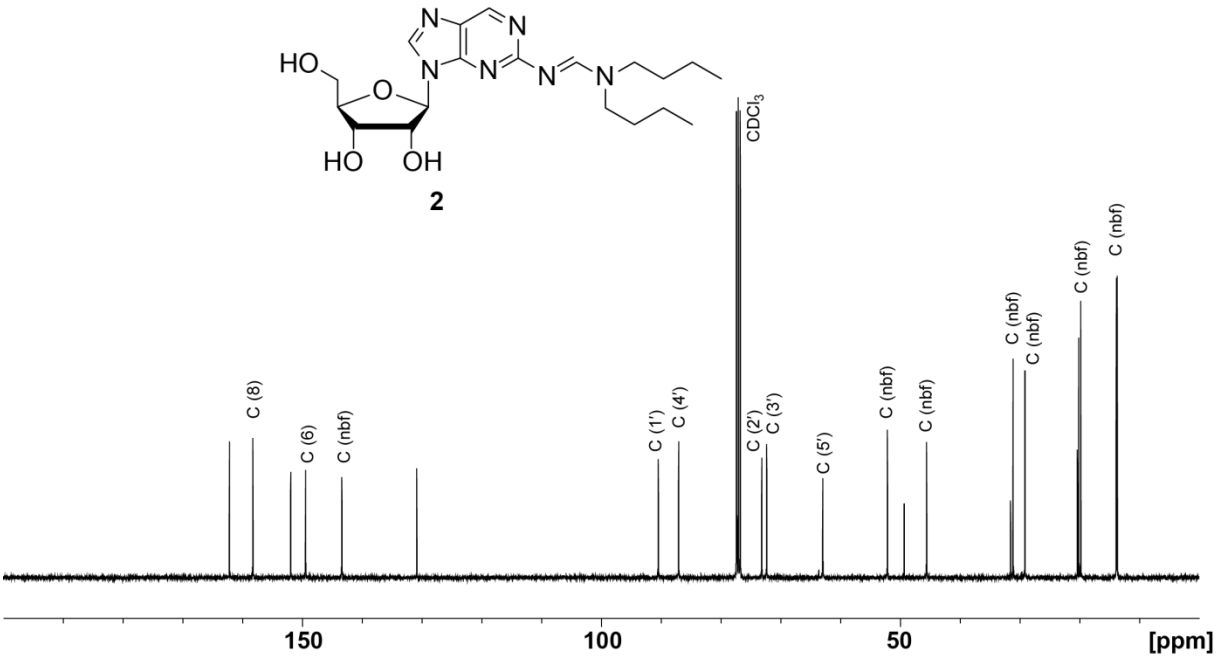


NMR spectra of compound 2

^{1}H-NMR (400 MHz, $CDCl_3$)

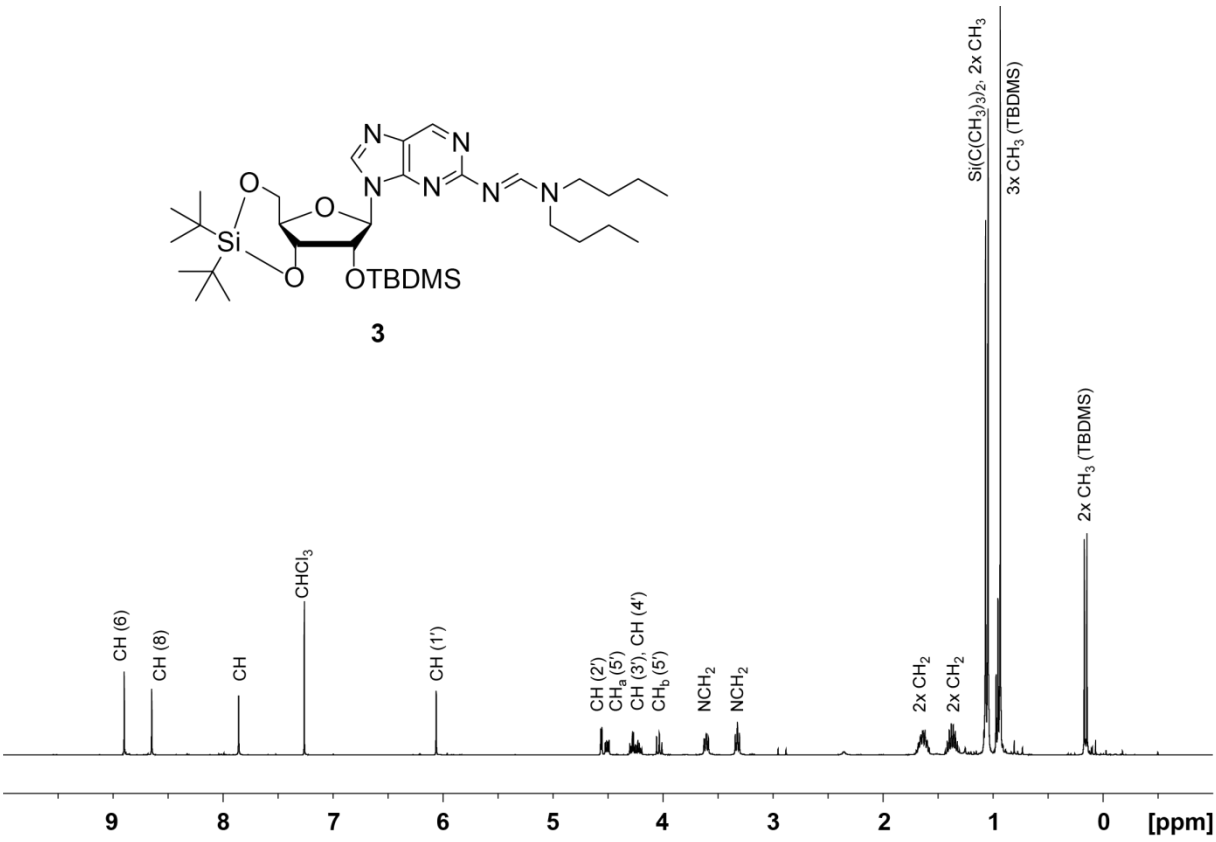


^{13}C-NMR (100 MHz, $CDCl_3$)

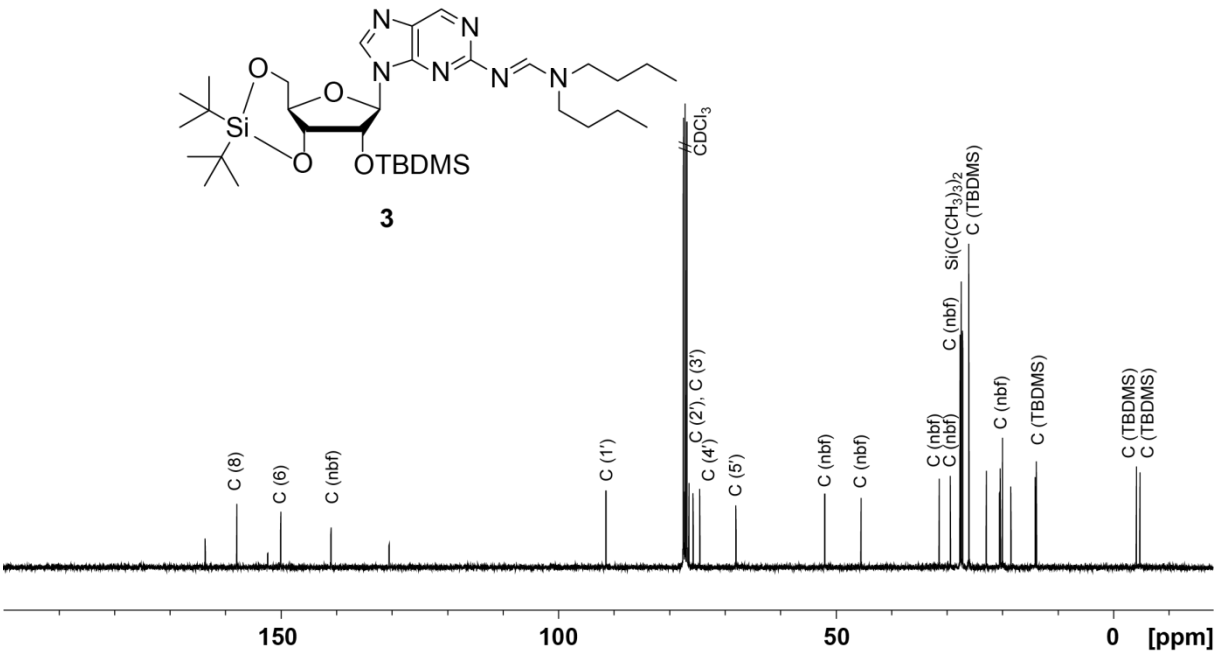


NMR spectra of compound 3

^{1}H-NMR (400 MHz, $CDCl_3$)

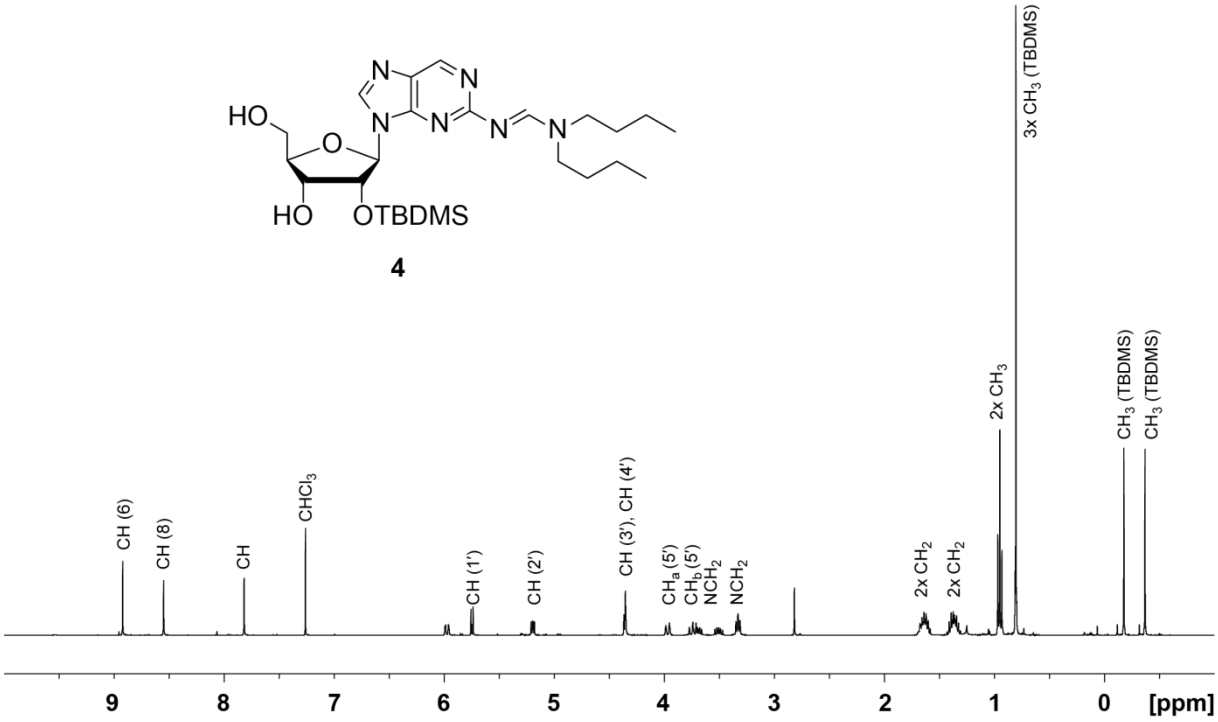


^{13}C-NMR (100 MHz, $CDCl_3$)

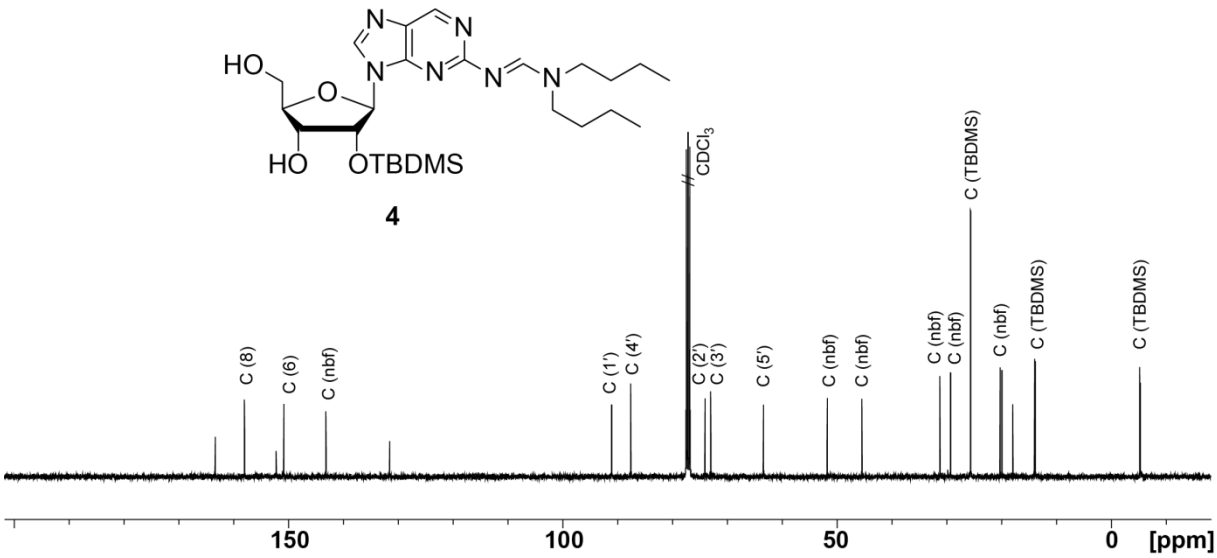


NMR spectra of compound 4

^{1}H-NMR (400 MHz, $CDCl_3$)

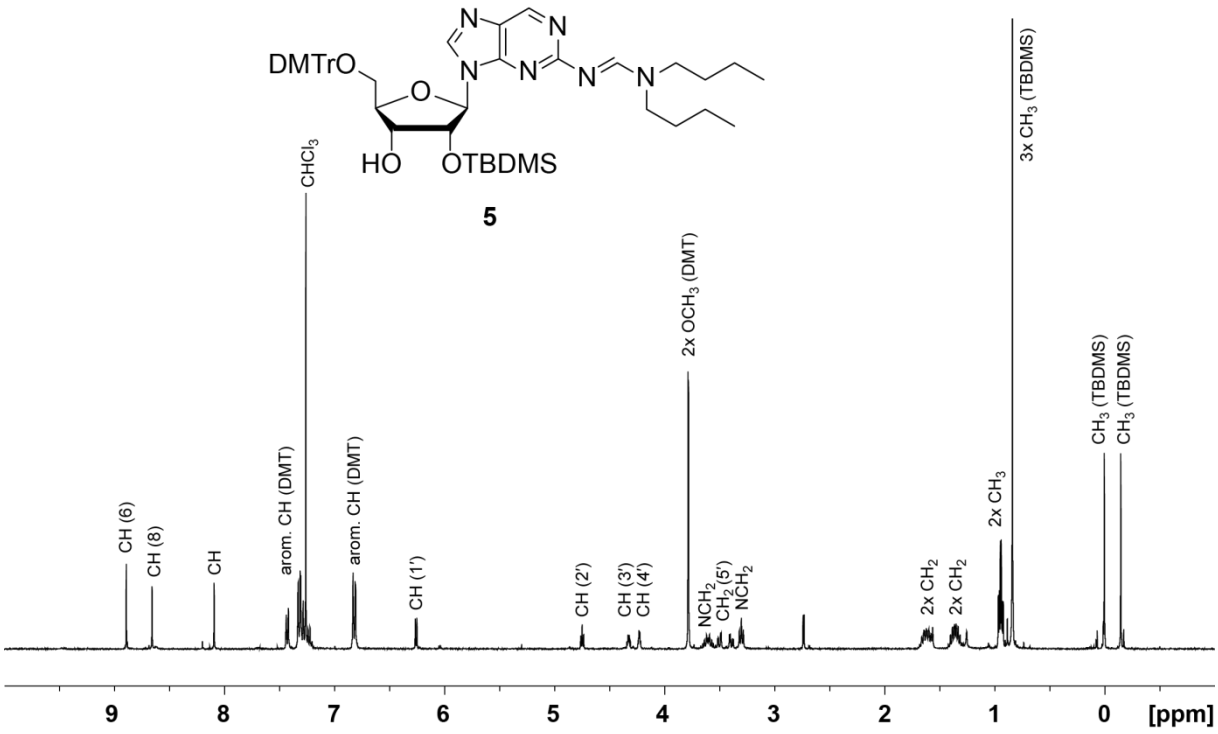


^{13}C-NMR (100 MHz, $CDCl_3$)

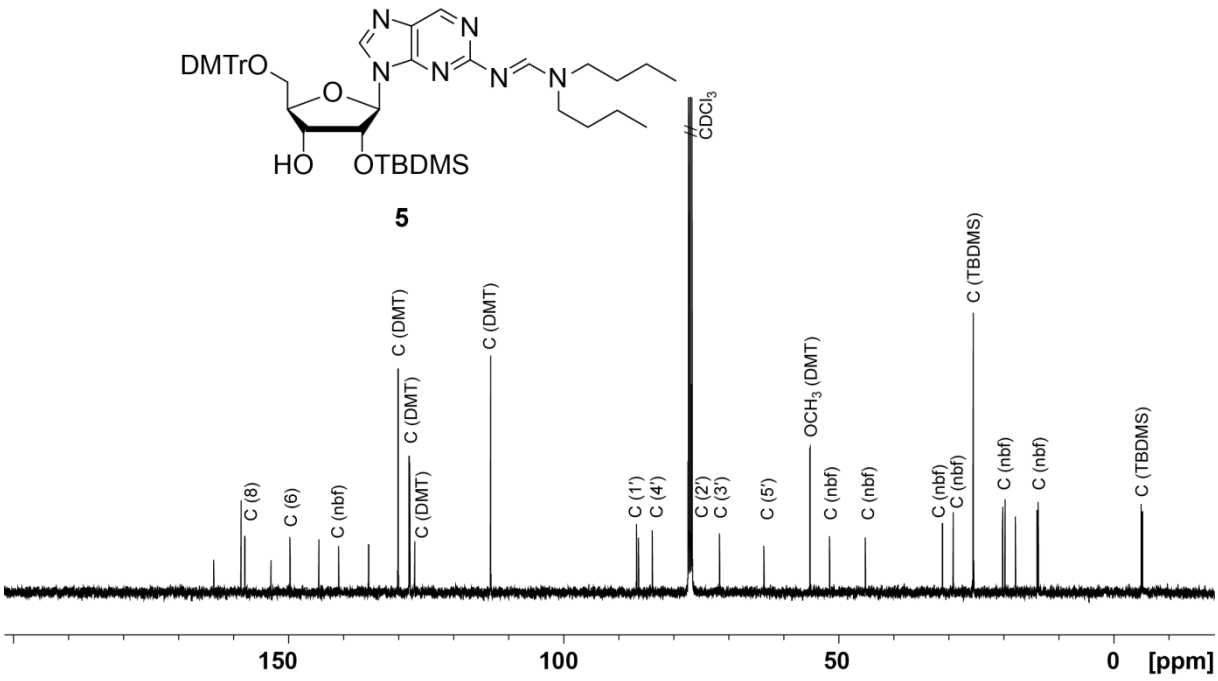


NMR spectra of compound 5

^{1}H-NMR (400 MHz, $CDCl_3$)

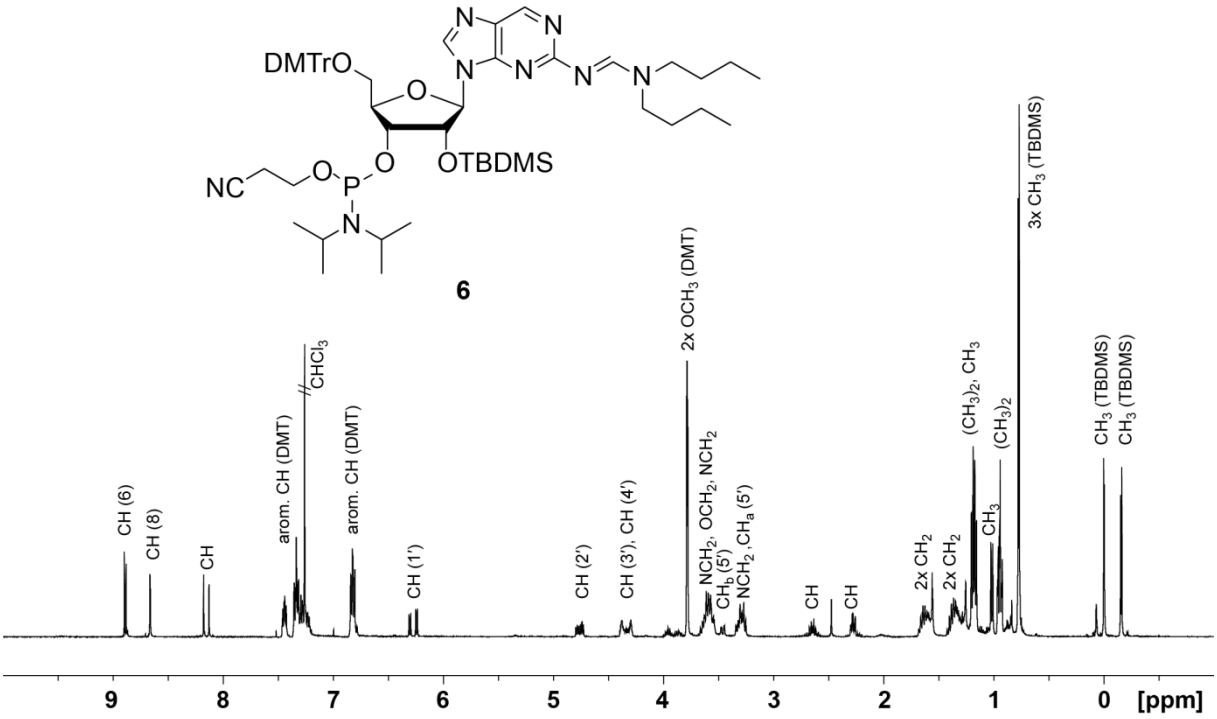


^{13}C-NMR (100 MHz, $CDCl_3$)

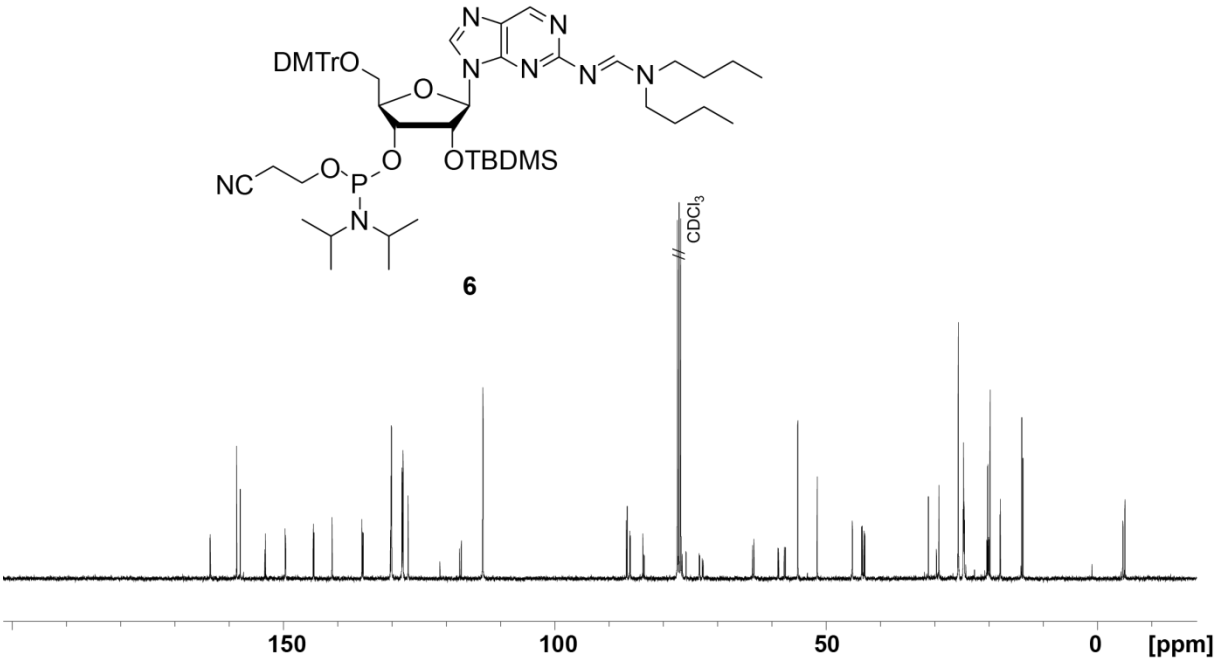


NMR spectra of compound 6

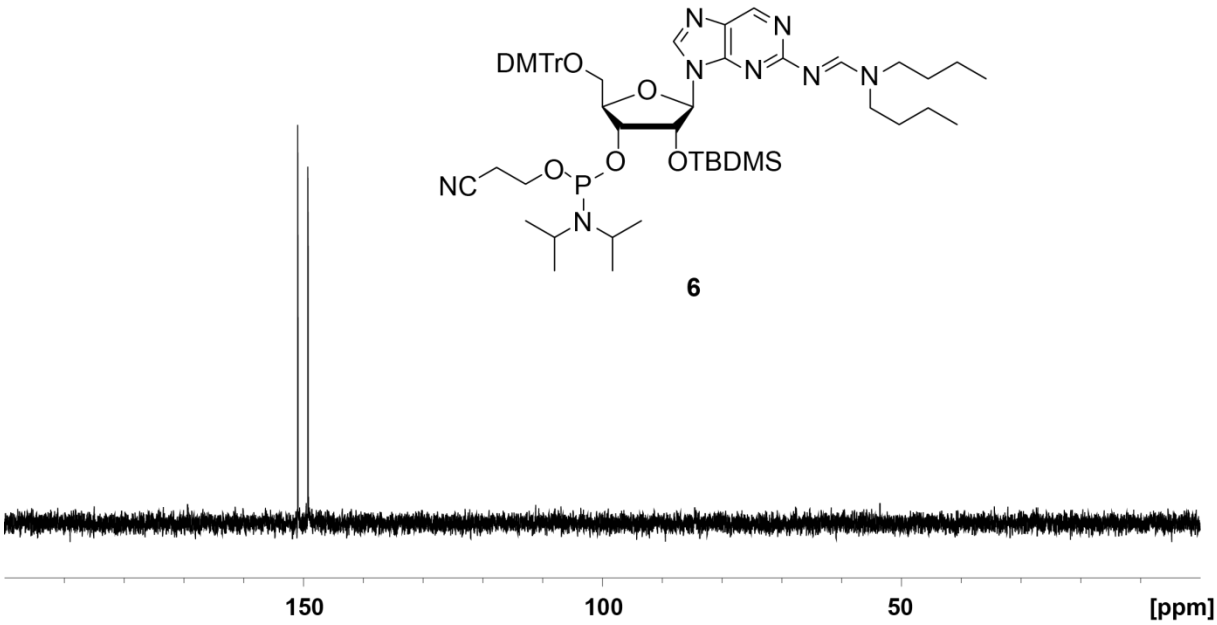
^{1}H-NMR (400 MHz, $CDCl_3$)

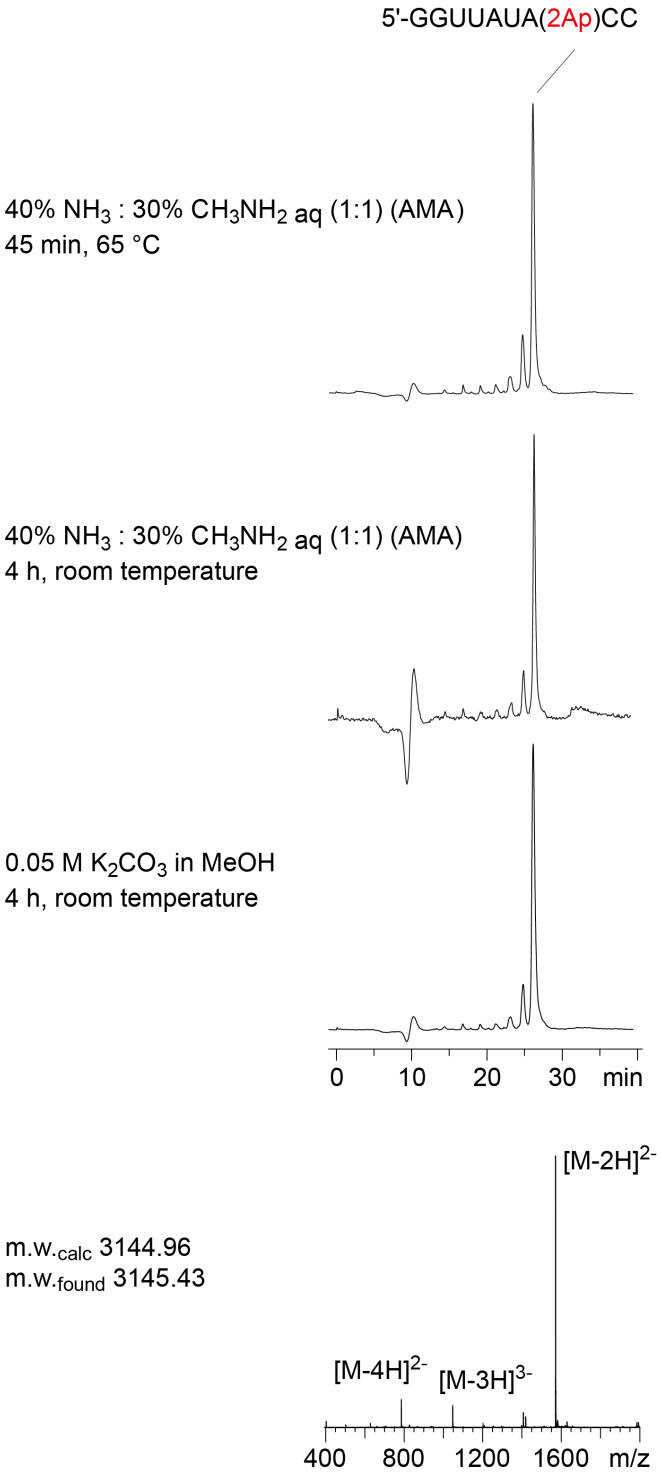


^{13}C-NMR (100 MHz, $CDCl_3$)



^{31}P-NMR (161 MHz, $CDCl_3$)





Supporting Figure 1. HPLC analysis of a short Ap-modified RNA deprotected under diverse basic conditions (as indicated). The basic deprotection step was followed by deprotection of the 2'-*O* silyl groups using 1 M TBAF in THF. HPLC conditions: Dionex DNAPac column (4 x 250 mm), 80 °C, 1 mL min^{-1}, 0–60 % buffer B in 45 min. Buffer A: Tris-HCl (25 mm), urea (6 M), pH 8.0. Buffer B: Tris-HCl (25 mm), urea (6 M), $NaClO_4$ (0.5 M), pH 8.0. The lower panel shows the LC-MS spectrum of the purified major product.