Supplementary Material (ESI) for Organic and Biomolecular Chemistry

Supplementary Data

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2'-Deoxyimmunosine: Stereoselective Synthesis, Base Pairing and Duplex Stability of Oligonucleotides Containing 8-Oxo-7-thiaguanine

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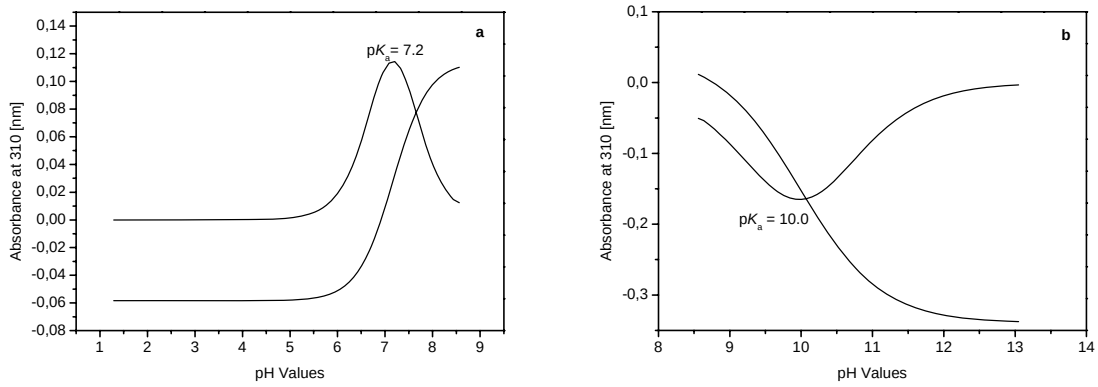

Figure S1 pK_a Titraton profiles of compound **5**, a) from pH 1.2 to 8.6; b) from pH 8.6 to 13.5 measured at 310 nm. pK_a values are given as inserts.

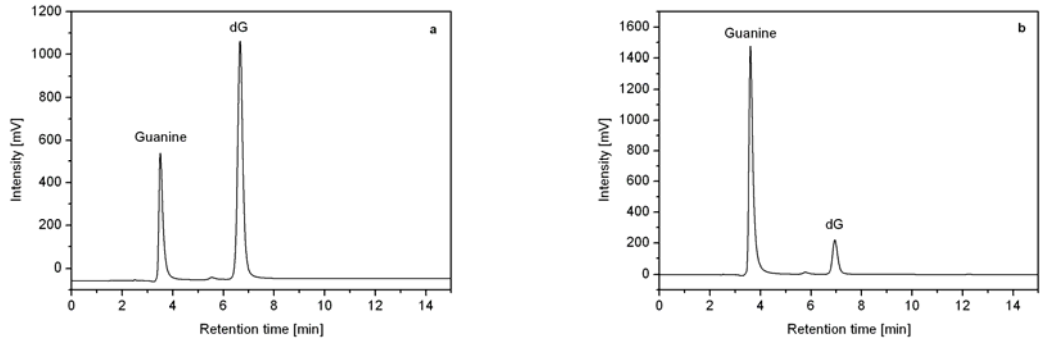

Figure S2 Reversed-phase HPLC profiles (column 250 × 4 mm, RP-18) of the hydrolysis mixture of dG in 0.5 M HCl at room temperature. (a) 10 min and (b) 50 min. Buffer: 5% MeCN in 0.1 M (Et_3NH)OAc, pH = 7.0, 1.0 mL/min. The profile was measured at 255 nm.

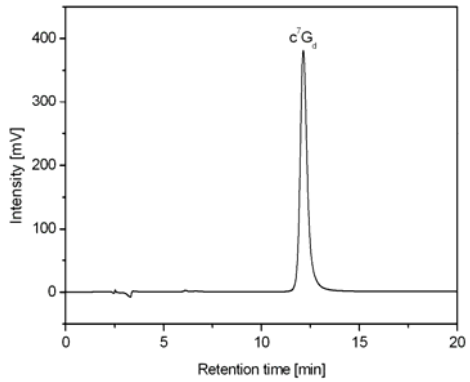

Figure S3 Reversed-phase HPLC profiles (250 × 4 mm, RP-18) of the hydrolysis mixture of 2'-deoxy-7-deazaguanosine (c^7G_d) in 0.5 M HCl at room temperature for 50 min. HPLC elution buffer: 5% MeCN in 0.1 M (Et_3NH)OAc, pH = 7.0, 1.0 mL/min. The profile was measured at 259 nm.