Supplementary data

Development of a Novel Fluorescence Assay Based on the Use of the Thrombin Binding Aptamer for the Detection of O⁶-alkylguanine–DNA Alkyltransferase Activity

Maria Tintoré, Anna Aviñó, Federico M. Ruiz, Ramón Eritja and Carme Fàbrega^{*}

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Figure S1. UV spectra of MB-TBA (5'-FAM-GGT TGG TGT GGT TGG-Dabsyl-3') at 20 and 80 °C.



Figure S2. UV spectra of MB-5-O⁶-MeG-TBA (5'-FAM-GGT T^{Me}GG TGT GGT TGG-Dabsyl-3') at 20 and 80 °C.



Figure S3. Melting curves of MB-TBA and MB-5-O⁶-MeG-TBA recorded at 295 nm. A quadruplex-to-random-coil transition is observed for the MB-TBA (Tm = 46 °C). No transition was observed for MB-5-O⁶-MeG-TBA.



Figure S4. Melting curves of MB-TBA and MB-5-O⁶-MeG-TBA recorded at 495 nm. A quadruplex-to-random-coil transition is observed for the MB-TBA (Tm = 46 °C). No transition was observed for MB-5-O⁶-MeG-TBA.



Figure S5. CD spectra of TBA, $5-O^6$ -MeG-TBA and $5-O^6$ -MeG-TBA recorded at 25 °C. Conditions 10 mM sodium cacodylate pH 7.0 and 100 mM KCl., sample concentration 4 μ M.



Figure S6. CD spectra of TBA, 3HP-TBA, 6HP-TBA and 9HP-TBA recorded at 25 °C. Conditions 10 mM sodium cacodylate pH 7.0 and 100 mM KCl., sample concentration 4 μ M.

