

Platination of full length tRNA^{Ala} and truncated versions of the acceptor stem and anticodon loop

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Table S1. Observed rate constants and the corresponding apparent first half-lives for the reactions of d(T₇GGT₇), sMh^{Ala} and acMh^{Ala} with cisplatin^{a,b,c}

oligonucleotide	$10^4 \times k_{\text{obs}} / \text{s}^{-1}$	$t_{1/2, \text{app}} / \text{h}$
d(T ₇ GGT ₇)	0.66 ± 0.09	3.9
sMh ^{Ala}	1.2 ± 0.3	2.6
acMh ^{Ala}	1.7 ± 0.2	2.1

^a[cisplatin] = 2.0×10^{-4} M, [DNA, RNA] = 4.0×10^{-6} M.

^bMOPS buffer pH 6.1, 37 °C, [Na⁺] = 140 mM, [Mg²⁺] = 2.0 mM.

^c $t_{1/2, \text{app}} = 60 + \ln 2 / k_{\text{obs}}$.

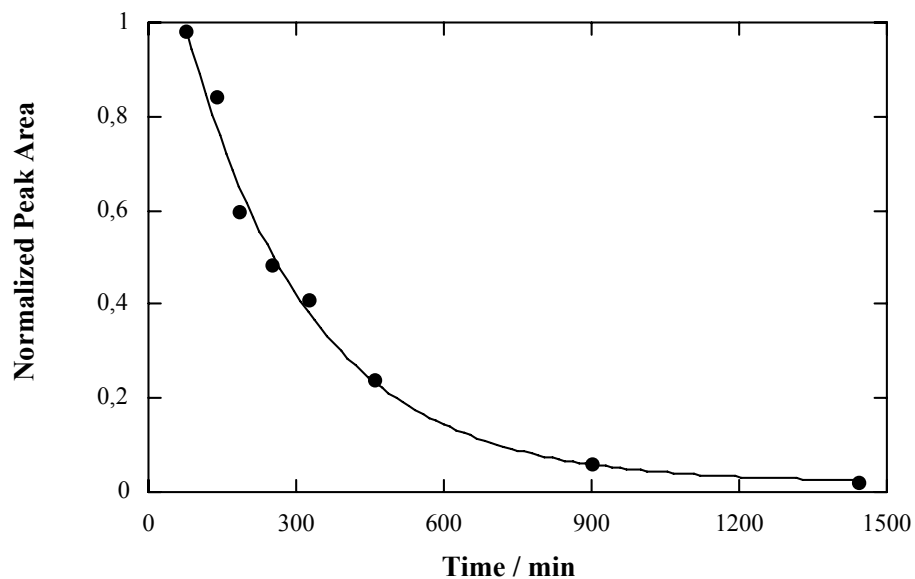


Fig S1. Fit of a single exponential function to the normalized, integrated peak areas vs. time for unplatinated d(T₇GGT₇) after exposure to cisplatin. Reaction conditions: [cisplatin] = 2.0×10^{-4} M, [DNA] = 4.0×10^{-6} M, pH 6.1, 37 °C, [Na⁺] = 140 mM, [Mg²⁺] = 2.0 mM.