

Supplementary Information for
"Relatively small increases in the steady-state levels of nucleobase
deamination products in DNA from human TK6 cells exposed to toxic levels
of nitric oxide"

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• **Figure S1.** LC/MS analyses of synthetic U- $^{13}\text{C}/^{15}\text{N}$ -dG, -dA and -dC. Figure S1 shows total ion chromatograms for uniformly ^{13}C , ^{15}N -labeled dA, dG and dC prepared by dephosphorylation of their corresponding 5'-triphosphate deoxyribose nucleotide precursors, which include the molecular ions and their depurinated nucleobase products.

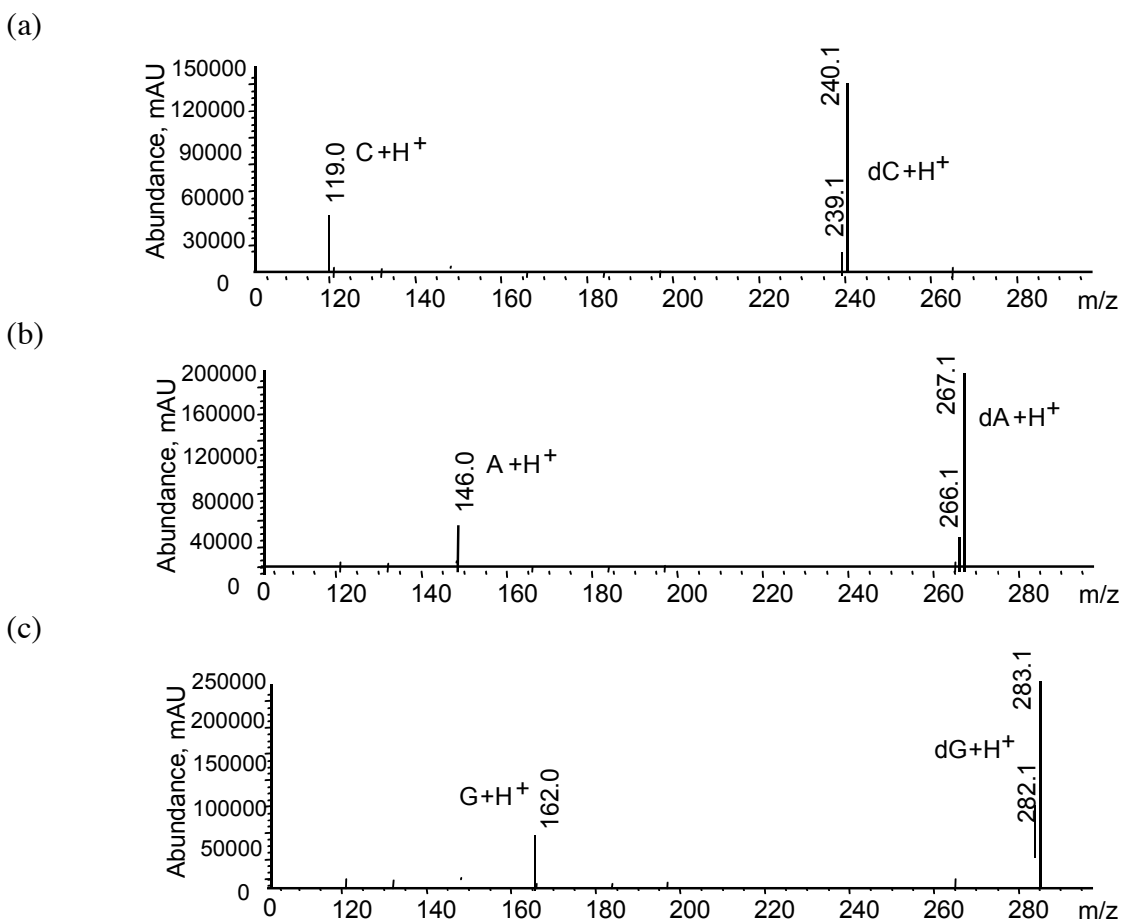


Figure S1. Characterization of synthetic $^{13}\text{C}_8\ ^{15}\text{N}_2$ -labeled 2'-deoxynucleoside standards by electrospray ionization mass spectrometry (positive ion mode). $^{13}\text{C}_8\ ^{15}\text{N}_2$ -labeled dC (a) and $^{13}\text{C}_{11}\ ^{15}\text{N}_4$ -labeled dA, dG (b and c). The m/z values of each double-labeled 2'-deoxynucleoside and free base are as follows: 239.1 for $^{13}\text{C}_8\ ^{15}\text{N}_2$ -dC and 118.0 for $^{13}\text{C}_3\ ^{15}\text{N}_2$ -C; 266.1 for $^{13}\text{C}_{11}\ ^{15}\text{N}_4$ -dA and 145.0 for $^{13}\text{C}_5\ ^{15}\text{N}_4$ -A; 282.1 for $^{13}\text{C}_{11}\ ^{15}\text{N}_4$ -dG and 161.0 for $^{13}\text{C}_5\ ^{15}\text{N}_4$ -G.

• **Figure S2.** Electrospray ionization LC/MS (selected ion mode) analysis of the formation of $^{13}\text{C}_{10}^{15}\text{N}_4$ -dX, dO and dI and $^{13}\text{C}_8^{15}\text{N}_2$ -dU from the corresponding double-labeled forms of dG, dA and dU, respectively.

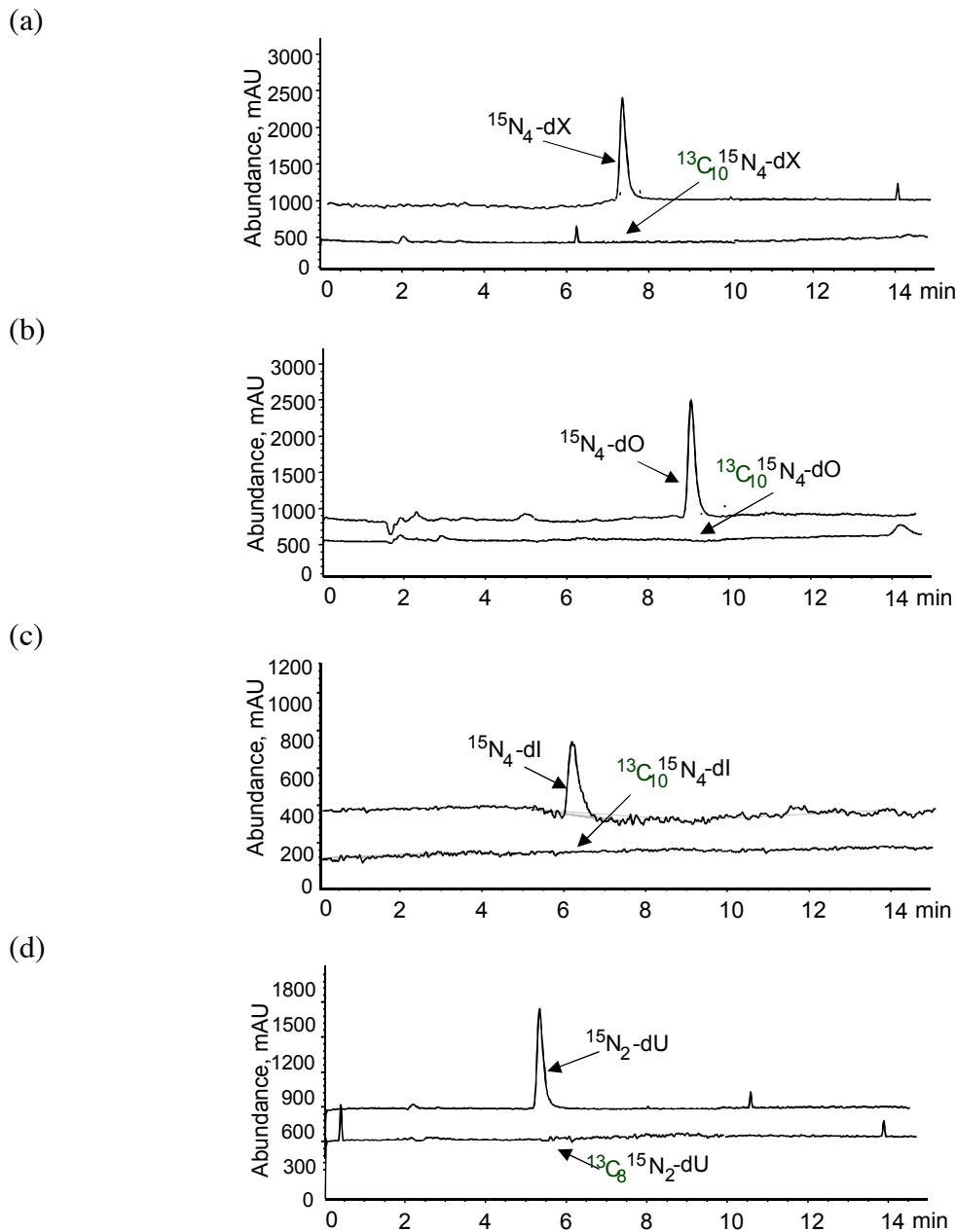


Figure S2. Electrospray ionization LC/MS (selected ion monitoring) analysis of the formation of $^{13}\text{C}_{10}^{15}\text{N}_4$ -dX, -dO and -dI and $^{13}\text{C}_8^{15}\text{N}_2$ -dU from the corresponding double-labeled forms of dG, dA and dU, respectively. ^{15}N -labeled 2'-deoxynucleosides served as the internal standards for quantification. Analyses were performed with the following molecular ions in positive ion mode (except dU): (a) $^{13}\text{C}_{10}^{15}\text{N}_4$ -X, m/z 162 and $^{15}\text{N}_4$ -X, m/z 157; (b) $^{13}\text{C}_{10}^{15}\text{N}_4$ -dO, m/z 162 and $^{15}\text{N}_4$ -dO, m/z 157; (c) $^{13}\text{C}_{10}^{15}\text{N}_4$ -dI, m/z 146 and $^{15}\text{N}_4$ -dI, m/z 141; and (d) $^{13}\text{C}_8^{15}\text{N}_2$ -dU at m/z 237 and $^{15}\text{N}_2$ -dU at m/z 229 in negative ion mode.