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2-Am,4,6-DNT Causes Genotoxicity of P53 Gene in NG108 Neuroblastoma Cell Lines

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ABSTRACT The 2-Amino,4,6-dinitrotoluene(2Am-DNT) is a non-enzymatic chemical metabolite of TNT (trinitro toluene) which is an important hazardous environmental pollutant. Genomic DNA was isolated from the NG108 cells treated with 2 Am-DNT for seven hours and also from untreated cells. DNA spanning p53 tumor suppressor gene exons 6-9 and parts of exon 5 and 10 was PCR amplified from both the control and treated genomic DNA's. Amplified PCR products from control and treated cells were of the same size using specific primers. Preliminary analysis of sequences of PCR products from treated cells and untreated cells showed several nucleotide changes indicating a possible genotoxicity role of 2 Am-DNT.

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