

Table 2. Predictions based upon DNA modeling technology.

A10 should bind weakly and reversibly with DNA.  
 A10 should not bind covalently with DNA and should have minimal side effects and low toxicity.  
 A10 should compete with intercalating carcinogens (e.g. arene oxides) for binding to DNA thereby preventing tumorigenesis induced by such compounds.

Table 3. Experimental results of in vitro and in vivo testing with A10.

Temperature melting and fluorescence spectroscopy studies demonstrate that A10 binds weakly to DNA (11).  
 Mass spectroscopy studies demonstrate that A10 does not interact covalently with DNA (11).  
 A10 delays the onset of mammary tumours induced by carcinogens in rats (13) and mice (12).  
 A10 delays appearance of spontaneous virus-induced tumours in mice (10). Animal and human studies demonstrate that A10 possesses low toxicity (14).

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