Synthesis and Characterization of bis-3,5-Disubstituted Thiadiazine-2-thione Derivatives as Anticancer Agents

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Abstract:

Selective cytotoxic effect toward tumor cells but not the normal tissues represent a major challenge in cancer drug discovery. Herein, we describe the synthesis and selective antitumor activity of some HHT. All the synthesized compounds showed a good antitumor activity against leukemia K562 cells. In regard to cytotoxicity in normal cells, compounds (1-11) showed no cytotoxic effect within 200 μM range, however compounds 12-16 showed non-selective cytotoxic effect.

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