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Synthesis And Characterization of Some New Antimony Compounds With Benzothiazole As Anticancer

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Abstract:The aim of the present work is to synthesize two new antimony compounds containing Benzothiazole (BZT) as a ligand, in the mole ratio 1:1 and 1:2 . Antimony compounds were characterized by FTIR, UV, CHNS analysis, Atomic Absorption and conductivity measurements.

The biological activity of BZT, SbCl₃ and the two new compounds was evaluated against Hela and Rhabdomyosarcoma (RD) cell lines. The four compounds were effective, while compound (2) was the best in inhibition.

Keywords :antimony compounds, benzothiazole, cytotoxicity , Hela cell, RD cell.

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