INVESTIGATION OF THE IN VITRO CYTOTOXIC EFFECT OF PALLADIUM(II) COMPLEXES WITH 2-AMINOTHIAZOLE DERIVATIVES ON MOUSE AND HUMAN COLORECTAL CARCINOMA CELL LINES

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UEG Week Vienna 2024 | Poster

Colorectal

October 13, 2024

In vitro study evaluates newly synthesized palladium(II) complexes with 2-aminothiazole derivatives for cytotoxic activity against colorectal carcinoma cell lines.

KEY POINTS

- The C1 palladium(II) complex demonstrated strong dose-dependent cytotoxic activity against mouse CT26 and human HCT116 colorectal carcinoma cell lines, with HCT116 cells showing greater sensitivity.
- The IC50 value for the C1 complex was higher compared to cisplatin, and C1 exhibited the highest cytotoxic capacity toward tumor cells with the highest IC50 values for control cells.
- All tested complexes and ligands reduced viability of non-tumor mouse mesenchymal stem cells, with mMSCs particularly sensitive to the C2 complex.
- The authors conclude that palladium(II) complexes with 2-aminothiazole derivatives demonstrate direct antitumor activity in vitro and warrant further research for potential use in experimental tumor therapy.

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