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Cytotoxic Pestalotiopsin from an Endophytic Fungus *Pseudopestalotiopsis Camelliae-Sinensis*

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A dione pestalotiopsin has been isolated from the ethyl acetate extract of a fungal endophyte *Pseudopestalotiopsis camelliae-sinensis*. The structure of this compound was established based on 1D- and 2D-NMR spectral analysis and HRMS. Pestalotiopsin was evaluated for its ability to kill human tumor cell lines using an MTT cytotoxicity assay. The compound was found to be selectively cytotoxic against three human tumor cell lines: MDA MB 231, MIA PaCa2, and HeLa, compared to the non-tumor lung fibroblast cell line WI38.