OR-78

Cytotoxic Effects of Ethanol Extract from *Cynometra Ramiflora* Linn leaves on T47D, HeLa and WiDr Cancer Cell Lines

Peni Indrayudha, Haryoto, Muhtadi, Andi Suhendi and Tanti Azizah

Faculty of Pharmacy, Muhammadiyah University of Surakarta, Jalan Achmad Yani, Tromol Pos 1, Pabelan, Kartasura, Surakarta 57102; Tel: +62271-717417

Cynometra ramifolia Linn known as Sala plant. This plant, especially in Solo City categorized as rare plant and traditionaly used to cures uric acid, diabetes, hypertension, and others pain. It is interesting to know the other activity by done the test to the human cancer cell-lines. This research objective to identify the cytotoxicity effect of ethanol extract from *C.ramiflora* leaves against T47D, HeLa and WiDr cancer cell lines. The cytotoxicity test of ethanol extract from *C.ramiflora* leaves determined by MTT assay by calculating the level of IC_{50} which was based on the percentage of the cell death following the 24 hours incubation with the extract. The results showed that ethanol extract of leave has cytotoxic effect to HeLa, T47D and WiDr cell-lines with the IC_{50} of 163.37, 533.33 and 69.66 ppm respectively. This research indicated that the ethanol extract isolated from *C. ramiflora* leaves was had a selective cytotoxicity effect to WiDr cell line.

Keywords: *Cynometra ramiflora*, cytotoxicity, cancer cell-lines, IC_{50}.