IN VITRO AND IN VIVO STUDIES ON ANTIPROLIFERATIVE ACTIVITY OF PARKIA JAVANICA

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ABSTRACT

Antiproliferative activity of the plant extract of Parkia javanica has been evaluated in vitro and in vivo. Thirty five to 94% (p<0.001) antiproliferative activity was observed in in vitro with different cell lines. Over 99% protection (p<0.001) and increase in survival of cancer cell carrying mice were observed in in vivo. Experimental results suggested induction of apoptosis involving mitochondrial pathway.

KEY WORDS: Parkia javanica, Antiproliferative activity, CEM/ ADR 5000, EAC/Dox cells, Cancer, Apoptosis