

Antileukemic activity and chemical constituents of some Zingiberaceae species

ABSTRACT

Crude extracts of various solvents from six species (genus *Alpinia*, *Zingiber*, *Kaempferia*) of Zingiberaceae family have been chosen for the in vitro cytotoxic activity screening against the inhibition of HL-60 cell line (Human promyelocytic leukemia). Eight extracts (44 %) were found to have cytotoxic activity with IC₅₀ values less than 30 µg/mL, with *Alpinia galanga* showing the most prominent antileukemic activity. Further isolation work on *Kaempferia galanga* has yielded ethyl p-methoxy-trans-cinnamate (1), p-methoxy-trans-cinnamic acid (2) besides β-sitosterol.

Keyword: Zingiberaceae; Antileukemic; *Alpinia*; *Zingiber*; *Kaempferia*