Antioxidant Activity and Anticarcinogenic Properties of “Sisik Naga” (Drymoglossum piloselloides Presl.)

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ABSTRACT
The research was conducted to determine the anticarcinogenic properties of “sisik naga” (Drymoglossum piloselloides Presl.), by the microculture tetrazolium salt (MTT) assay on the human breast carcinoma dependent-hormone (MCF-7) cell lines. The preliminary results showed that the “sisik naga” extract displayed the cytotoxic effects against MCF-7 with IC50-value of 83.63μg/ml. The antioxidative activity of the extracts which could contribute to their cytotoxic properties was also studied. The “sisik naga” extract was found to have high antioxidant activity with IC50-value of 4.229 ppm. The strong cytotoxic properties of the “sisik naga” extract could be due to its high antioxidant activity.