

Evaluation of Anti-inflammatory activity of *Fissistigma poilanei* and *Rubus laxus* Focke

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The aim of the study was to determine the anti-inflammatory activities of the plants with origin of China. The *Fissistigma poilanei*, which is a species of plant in the family Annonaceae and *Rubus laxus* Focke, which is a species of plant in the family Rosaceae from China were tested for anti-inflammatory activities. Samples were prepared using 95% ethanol using nitric oxide (NO) assay for assessing the anti-inflammatory activity. NO assay experiment showed that extracts of the *Fissistigma poilanei* give 28.3% increases in anti-inflammatory activity and extracts of *Rubus laxus* Focke give 57.1% decreases in anti-inflammatory activity, compared to control. To determine the cell toxicity, MTT (3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide) assay was used. MTT assay experiment showed that *Fissistigma poilanei* and *Rubus laxus* Focke might have less toxicity of 60.5% and 62.3%, respectively, compared to control. Taken together, these experiments showed that *Fissistigma poilanei* extracts might have significantly higher anti-inflammatory activities and relatively lower toxicity, compared to control. This implies that this study might give a tool to develop a new potential anti-inflammatory therapeutic candidate.

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