

## Anti-inflammatory Activity of Complex Saponin Separated from *Pueraria flos* and Adzuki Beans Mixture Extract

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*Pueraria flos* and Adzuki Beans contains several bioactive compounds, such as saponin, oleanolic acid, and flavone. *Pueraria flos* and Adzuki Beans has traditionally been used to treat disorders of antioxidant activity, diabetes and liver detoxication, and it has antinociceptive and anti-inflammatory properties. However, complex saponin were validity of the anti-inflammatory activity has not been scientifically investigated. In this study, to determine anti-inflammatory activity of complex saponin separated from *Pueraria flos* and Adzuki Beans mixture extract on nitric oxide and prostaglandinE<sub>2</sub> assay. The anti-inflammatory activities of complex saponin separated from *Pueraria flos* and Adzuki Beans mixture extract were evaluated for inhibitory activities against lipopolysacchride induced nitric oxide and prostaglandinE<sub>2</sub> production protein expressions in RAW264.7 cell lines. The complex saponin separated from *Pueraria flos* and Adzuki Beans mixture extract inhibitory activity for both tests with protein high depressions(%) values showed in the ranges of 50~100 µg/ml. Overall, prostaglandinE<sub>2</sub> tests had a higher inhibitory effect on inflammation than nitricoxide tests.

Theseis result suggest a potential role of complex saponin separated from *Pueraria flos* and Adzuki Beans mixture extract as source of anti-inflammation agent.

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