



## *In Vitro* Antioxidant and *In Vivo* Anti-Inflammatory Potential of Crude Non-Alkaloid Fractions from *Fritillaria ussuriensis* Maxim

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**SUMMARY.** The present study was conducted to evaluate the antioxidant and anti-inflammatory effects of the ethanol extracts (PBE) and the non-alkaloid fractions, the crude saponin extract (CSE) and the crude flavonoids extract (CFE), of *Fritillaria ussuriensis* Maxim (PB). The antioxidant activity of PB extracts decreased in the order: CFE > CSE > PBE. All the administered groups produced significant anti-inflammatory effects on the three animal models. The results demonstrated that the different fractions of PB have different responses with different antioxidant methods and anti-inflammation animal models. CSE showed the best antioxidant and anti-inflammatory activities and CFE and PBE followed.

**KEY WORDS:** Anti-inflammatory, Antioxidant, Flavonoids, *Fritillaria ussuriensis* Maxim., Saponins.

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