분류번호	Ⅲ-P-1

Anti-inflammatory effects of Fangchinoline and Tetrandrine

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Fangchinoline and Tetrandrine are the major alkaloids of bis-benzylisoquinoline structure isolated from *Stephania tetrandra* which has been used as anti-inflammatory drug.

The purpose of this study was to investigate the inhibitory effects of Fangchinoline and Tetrandrine on cyclooxygenase, interleukin-5 (IL-5) and interleukin-6 (IL-6) as anti-inflammatory mechanisms.

Tetrandrine at 100 μ M did not show any inhibitory effect but Fangchinoline showed 31% of inhibition on cyclooxygenase. In addition, in mIL-5-dependent Y16 proliferation assay, Tetrandrine at 30 μ M exhibited more than 50% of inhibition but Fangchinoline did not any effect. However in hIL-6-dependent MH60 proliferation assay, more than 50% of inhibition was observed by both of Fangchinoline and Tetrandrine at 30 μ M. Fangchinoline and Tetrandrine also showed anti-inflammatory effects by croton oil induced mouse ear edema test.