

Forsythiaside A

Forsythiaside A, a phenylethanoid product isolated from air-dried fruits of *Forsythia suspensa*, has been reported to have anti-inflammatory and antioxidant effects. In this study, the anti-inflammatory effects of forsythiaside A on LPS-stimulated BV2 microglia cells and primary microglia cells were investigated. The production of inflammatory mediators TNF- α , IL-1 β , NO and PGE2 were detected in this study. NF- κ B, nuclear factor-erythroid 2-related factor 2 (Nrf2), heme oxygenase-1 (HO-1) expression were detected by western blot analysis. Our results showed that forsythiaside A significantly inhibited LPS-induced inflammatory mediators TNF- α , IL-1 β , NO and PGE2 production. LPS-induced NF- κ B activation was suppressed by forsythiaside A. Furthermore, forsythiaside A was found to up-regulate the expression of Nrf2 and HO-1. In conclusion, this study demonstrates that forsythiaside A inhibits LPS-induced inflammatory responses in BV2 microglia cells and primary microglia cells through inhibition of NF- κ B activation and activation of Nrf2/HO-1 signaling pathway ¹⁾.

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Wang Y, Zhao H, Lin C, Ren J, Zhang S. Forsythiaside A Exhibits Anti-inflammatory Effects in LPS-Stimulated BV2 Microglia Cells Through Activation of Nrf2/HO-1 Signaling Pathway. *Neurochem Res*. 2016 Apr;41(4):659-65. doi: 10.1007/s11064-015-1731-x. Epub 2015 Oct 26. PMID: 26498935.

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