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Xanthotoxin, a furanocoumarin compound expresses anti-inflammatory effects through suppression of iNOS, COX-2, TNF-α, and IL-6 via AP-1, NF-κB, and JAK-STAT inactivation in RAW 264.7 cells

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Mathematical and DNA-binding activity of nuclear transcription factor kappa-B (NF-κB) through the inhibiting of p65 nuclear translocation. In addition, the LPS-induced phosphorylation of extracellular signal-regulated kinase (ERK) 1/2 and p38 mitogen-activated protein kinase (MAPK) was found to be suppressed by xanthotoxin. Taken together, these results indicate that xanthotoxin devenges.

Biography

Seung-Bin Lee is a student at Kyung Hee University in South Korea and has been intensively studied on screening anti-inflammatory effect among various natural product derived compounds. In an idea to alleviate these tendency, he has been investigated the underlying molecular mechanism of several drugs which elicit significant decrease of inflammatory endpoints such as nitric oxide, prostaglandin E₂, and pro-inflammatory cytokines.

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