

综述

基于NF- κ B信号通路的咖啡酸苯乙酯抗炎和抗肿瘤作用研究进展

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摘要 咖啡酸苯乙酯(CAPE)是源于蜂胶的小分子化合物,具有抗炎、免疫调节、抗肿瘤和抗氧化等作用,是NF- κ B信号通路的特异性抑制剂,具有良好的临床应用前景。CAPE抑制多种介质诱导的NF- κ B通路活化,降低肿瘤坏死因子 α 和白细胞介素1 β 等促炎因子的浓度,其机制涉及阻滞p65核转录、抑制NF- κ B与DNA结合等。本综述主要介绍近年来国内外关于CAPE基于NF- κ B通路的抗炎免疫和抗肿瘤药理活性研究进展,以期对该化合物的进一步研究和应用提供参考。

关键词 [咖啡酸苯乙酯](#) [NF- \$\kappa\$ B](#) [抗炎药\(中药\)](#) [抗肿瘤作用](#)

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Progress in anti-inflammatory and antineoplastic effect of caffeic acid phenethyl ester by NF- κ B pathway

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Abstract

Caffeic acid phenethyl ester (CAPE), a small-molecule selective inhibitor of NF- κ B from propolis, exhibits anti-inflammatory, immuno-regulating, antitumor and antioxidant activities, with a good prospect of clinical application. CAPE inhibits TNF- α and activation of NF- κ B induced by other media, and down-regulated concentrations of TNF- α , IL-1 β and other proinflammatory cytokines by suppressing the transcriptional activity of p65 subunit, NF- κ B-DNA binding action and other mechanisms. This review summarizes the progress in the anti-inflammatory, immuno-regulating and antitumor pharmacology activity of CAPE based on the inhibition of NF- κ B in order to provide reference for further research and application of CAPE.

Key words [caffeic acid phenethyl ester](#) [NF- \$\kappa\$ B](#) [anti-inflammatory drugs](#) [antineoplastic effect](#)

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