Comparative study on inhibitory activity of zerumbone and zerumbone 2,3-epoxide on NF-?B activation and NO production

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Abstract: In the present study the significant role of the ?,?-unsaturated carbonyl structure in the anti-inflammatory activity of the natural humulane sesquiterpenoids zerumbone and zerumbone 2,3-epoxide was evidenced from a comparative study of the ability of zerumbone and zerumbone 2,3-epoxide to inhibit NF-?B activation and NO production in LPS (lipopolysaccharide)- stimulated RAW 264.7 cells. The IC_{50} of these compounds were 1.97 ?M ? 0.18 and 30.11 ?M ? 4.10 in the NF-?B activation assay and 3.58 ?M ? 0.46 and 34.7 ?M ? 3.72 in the nitric oxide production assay, respectively. ?? Giang et al.; licensee ??sterreichische Apotheker-Verlagsgesellschaft m. b. H.

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