ポンカン果実の血小板リポキシゲナーゼ阻害活性

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Phytochemistry, **56**, 729-732 (2001)

Inhibitors of platelet lipoxygenase from Ponkan fruit

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ABSTRACT: An activity-guided separation for inhibitors of rat platelet 12-lipoxygenase led to the isolation of two compounds, 4-*O*-feruloyl-5-*O*-caffeoylquinic acid (IC_{50}; 5.5 μM) and methyl 4-*O*-feruloyl-5-*O*-caffeoylquinate (IC_{50}; 1.9 μM) from the peel of Ponkan fruit (*Citrus reticulata*). The complete structure of each phenolic ester was determined by NMR spectroscopy [^{1}H and ^{13}C NMR spectra, ^{1}H-^{1}H correlation spectroscopy (COSY), ^{1}H-detected heteronuclear multiple quantum coherence (HMQC), and heteronuclear multiple bond connectivity (HMBC) spectroscopies] and other spectral methods.

抄録　ラットの血小板リポキシゲナーゼ阻害活性を指標に、ポンカン果実から２つの化合物、4-*O*-feruloyl-5-*O*-caffeoylquinic acid 及び methyl 4-*O*-feruloyl-5-*O*-caffeoylquinateを単離し、NMRの種々の手法を用いた解析等からそれらの化学構造を決定した。

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