

The protective effect of persimmon leaf flavonoid on carbon tetrachloride-induced liver injury in mice

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Abstract

Crude flavonoid (CF) was extracted from persimmon leaf of the 'Jirou' cultivar with 70% alcohol/water (v/v), and five fractions (WF, AF1, AF2, AF3, AF4) were obtained by macroporous resin eluted with de-ionized water, 10% alcohol/water, 20% alcohol/water, 30% alcohol/water and 50% alcohol/water (v/v), respectively. The effects of persimmon leaf flavonoid on carbon tetrachloride-induced liver injury in mice were investigated. The results showed that persimmon leaf flavonoid and its fractions could markedly decrease the activity of ALT and AST in serum and increase that of SOD and CAT in liver, with the reduced MDA and NO in liver of the tested mice. It suggested that persimmon leaf flavones exerted a protecting effect against liver injury.