

# Flavonoid Compound From the Stem bark of *Drimys beccariana* and its Antiplasmodial Activity against *Plasmodium falciparum*

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## Abstrak

Senyawa piloin (5,3'-dihidroksi-7,4'-dimetoksi flavon) telah diisolasi dari kulit batang tanaman *D. beccariana*. Struktur kimia piloin diidentifikasi berdasarkan data spektroskopi, meliputi UV, IR, NMR (<sup>1</sup>H, <sup>13</sup>C, DEPT 135°, HMQC, HMBC, <sup>1</sup>H-<sup>1</sup>H-COSY) dan MS, bersama dengan pembandingan data spektra yang dilaporkan sebelumnya. Senyawa Piloin telah dievaluasi aktivitas antiplasmodiumnya terhadap *P. falciparum* dengan nilai IC<sub>50</sub> sebesar 0.16 µg/mL.

*Kata kunci* : *D. beccariana*, *antiplasmodium*, *P. falciparum*, *piloin*

## Abstract

Piloin (5,3'-dihydroxy-7,4'-dimetoxy flavon) compound was isolated from stem bark of *D. beccariana*. The chemical structure of piloin were determined by spectroscopic data including UV, IR, NMR (<sup>1</sup>H, <sup>13</sup>C, DEPT 135°, HMQC, HMBC, <sup>1</sup>H-<sup>1</sup>H-COSY) and MS, along with by comparison with previously reported spectra data. Piloin compound were evaluated their antiplasmodial effect against *P. falciparum* with IC<sub>50</sub> values of 0.16 µg/mL.

*Keywords* : *D. beccariana*, *antiplasmodial*, *P. falciparum*, *piloin*