

# 26Z-pm08

タイ薬用植物 *Vitex glabrata* 中のエストロゲン様 / 抗エストロゲン様物質の検索  
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**[Introduction]** *Vitex glabrata*, a Thai medicinal plant used for tonic, relieving fever and treating diarrhea, was studied on its chemical constituents. Isolates were evaluated for their estrogenic and anti-estrogenic activity.

**[Methods]** The dried leaves of *V. glabrata* (3 kg), collected on Nov. 2007, were extracted with hot MeOH by refluxing. The extract (200 g from total 566 g) was chromatographed on a silica gel column and HPLC using ODS and phenyl column. Two breast cancer cell lines, MCF-7 and T47D, were used for estrogenic and anti-estrogenic activity assay of isolates and their estrogen-responsive cell proliferation were monitored.

**[Results]** Four known compounds were obtained and identified as luteolin-4'-*O*- $\beta$ -D-glucopyranoside (**1**, 5 mg), luteolin-3'-*O*- $\beta$ -D-glucopyranoside (**2**, 5 mg), 4-hydroxybenzoic acid (**3**, 9 mg), and fraxiresinol-4-*O*- $\beta$ -D-glucopyranoside (**4**, 9 mg). These compounds suppressed estrogen-enhanced cell proliferation in both cell lines at 1  $\mu$ M of concentration.

