



ผลงานอาจารย์

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# รายงานการวิจัย

## เรื่อง

๒๔๕ ๖:

### สารออกฤทธิ์ทางชีวภาพจากเมล็ดและดอกมะปูด

๒๔๕ ๖:

### Bioactive substances from seeds and flowers of *Garcinia dulcis*

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## Phenolic compounds from the flowers of *Garcinia dulcis*

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### Abstract

Dulcisxanthones C–F (1–4) and dulcinone (5) together with 22 known compounds were isolated from the flowers of *Garcinia dulcis*. Their structures were determined by spectroscopic methods. The abilities of some of these compounds to act as radical scavengers and antibacterial agents were investigated.

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**Keywords:** *Garcinia dulcis*; Guttiferae; Xanthones; Chromones; Radical scavenging; Antibacterial

## Chemical Constituents Isolated from the Seeds of *Garcinia dulcis* and Inhibition of Lipoprotein Oxidation by Morelloflavone and Camboginol

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### Abstract

Dulcixanthone H, together with fourteen known compounds were isolated from the seeds of *Garcinia dulcis*. Their structures were determined by analysis of 1D and 2D NMR spectroscopic data. These compounds showed weak antibacterial activity. Morelloflavone and camboginol exhibited stronger antioxidation activity in low-density lipoprotein (LDL) assays than did the well known antioxidants  $\alpha$ -tocopherol (vitamin E) and BHT.

### Key words

*Garcinia dulcis*; Guttiferae; xanthones; antioxidant ; LDL oxidation; antibacterial