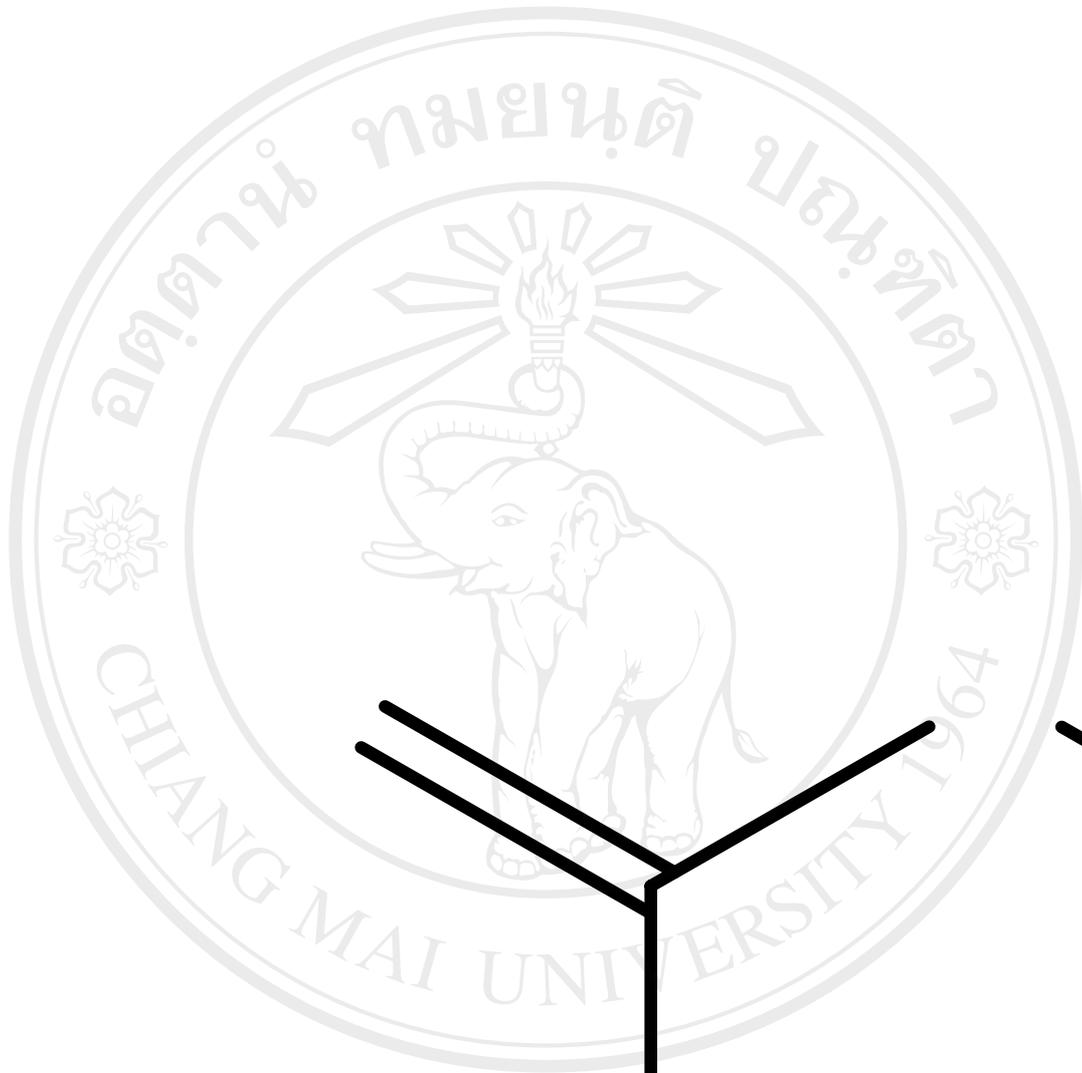


Thesis Title	Isolation and Structure Elucidation of Chemical Components from Roots of <i>Acronychia pedunculata</i>
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Degree	Master of Science (Chemistry)
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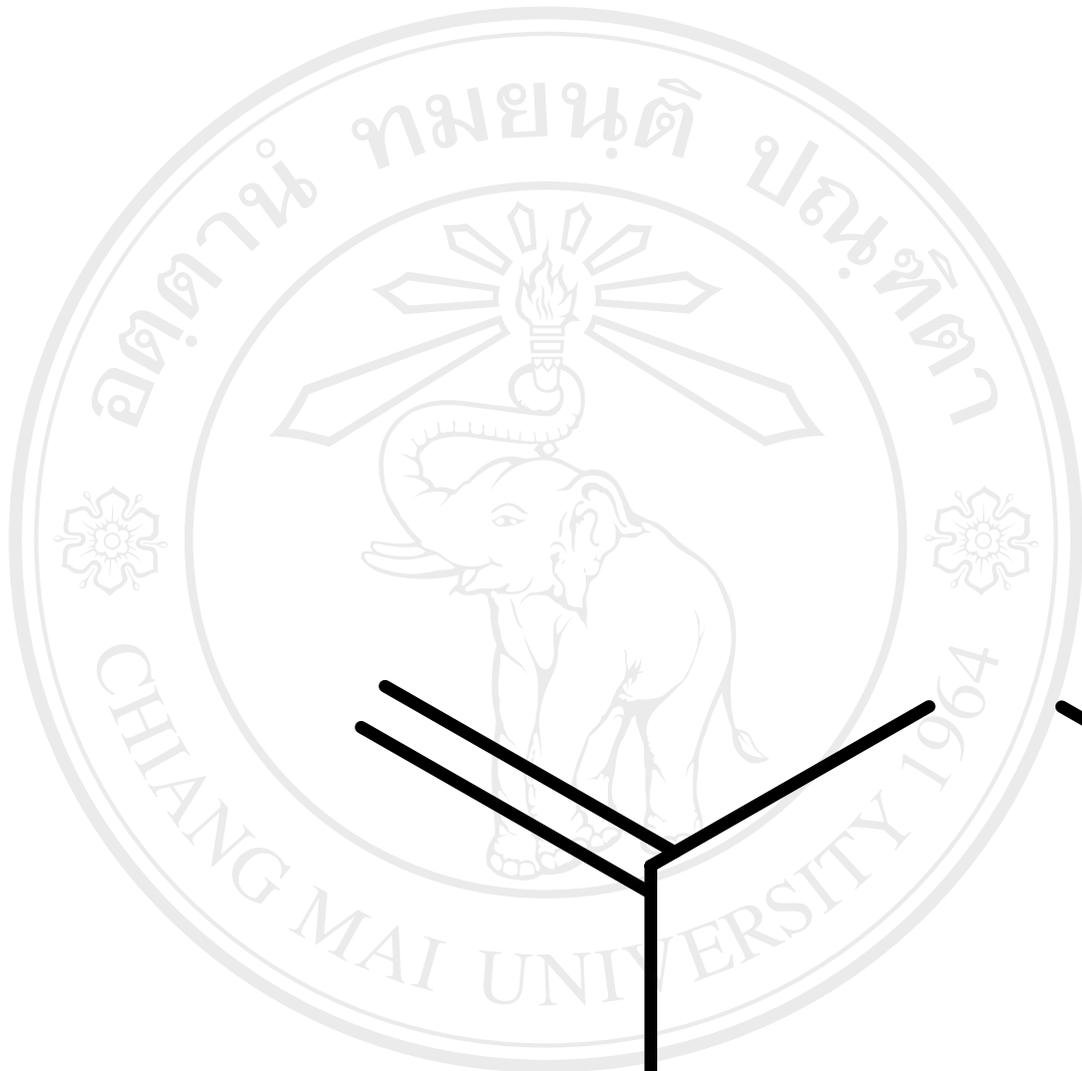
ABSTRACT

The isolation and structure elucidation of chemical components from roots of *Acronychia pedunculata* resulted in five compounds identified as [2,3-dihydro-2-(1-hydroxy-1-methylethyl)-7H-furo[3,2-g][1]] benzopyran-7-one (**I**), (+)-4-hydroxy-5,5-dimethyl-5-butyrolactone (**II**), 1-[2'-hydroxy-6'-methoxy-5'-(3''-methylbut-2''-enyl)-3',4'-(3''',3''') dimethyl-1'''-pyrenyl] acetophenone (**III**), 3-*epi*- δ -*amyrin* (**IV**) and trimeric ester of terephthalic acid and glycol (**V**). Their structures were determined mainly by NMR spectroscopy and Mass spectrometry. The structures were confirmed by comparison of the spectral data with those reported. This is the first report of the isolation of **I**, **II**, **IV** and **V** from the roots of this plant.



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