

CHAPTER V

CONCLUSION AND RECOMMENDATION

The present investigation on the roots of *Sophora exigua* Craib has led to the isolation of four flavanones, 2(S)-5, 2', 6'-trihydroxy-8-lavandulyl-7-methoxyflavanone, 2(S)-5, 7, 2', 6'-tetrahydroxy-8-lavandulylflavanone, 5, 7, 2'-trihydroxy-8-lavandulylflavanone, and the novel flavanone 5, 7, 2', 4', 6'-pentahydroxy-8-lavandulylflavanone. The identification of these four compounds was based on the data from various spectroscopic techniques. The presence of these flavanones in this species is available information for further conclusion about chemical constituents in the genus *Sophora* of Leguminosae.

In cardiovascular screening, the isolated flavanone, SE-2 was found to be a moderately strong Ca^{2+} ATPase inhibitor and show less toxicity to brine shrimp. These data determine a potential medicinal use of this isolated compound and other compounds with the structures close to compound SE-2. Consequently, the pharmacological and toxicological studies should be conducted to reveal the therapeutic activities of these compounds.