

Short Note

5,9,11-Trihydroxy-2,2-dimethyl-3-(2-methylbut-3-en-2-yl)pyrano[2,3-a]xanthen-12(2H)-one from the Stem Bark of *Calophyllum tetrapterum* Miq.

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Abstract: A new pyranoxanthone namely 5,9,11-trihydroxy-2,2-dimethyl-3-(2-methylbut-3-en-2-yl)pyrano[2,3-a]xanthen-12(2H)-one (**1**) was isolated from the stem bark of *Calophyllum tetrapterum* Miq. The structure of compound **1** was determined by means of spectroscopic methods including UV, IR, HRESIMS, 1D and 2D NMR.

Keywords: *Calophyllum tetrapterum* Miq.; pyranoxanthone; natural product

1. Introduction

The genus *Calophyllum* (Clusiaceae) comprises over 200 species of trees and shrubs native to tropical Asia, East Africa and Australia. This genus is well known to be a rich source of bioactive xanthenes [1–4], coumarins [5–7], chromanone acids [8–11], and flavonoids [12]. Some these were reported to exhibit of biological activities including anti-HIV, anticancer, antimalarial and antimicrobial [13,14].

In this paper, we report the chemical constituents of the stem bark of *Calophyllum tetrapterum* Miq. with the isolation of a new pyranoxanthone, 5,9,11-trihydroxy-2,2-dimethyl-3-(2-methylbut-3-en-2-yl)pyrano[2,3-a]xanthen-12(2H)-one (Figure 1). The anti-HIV activity of isolated compound from this plant is also reported.

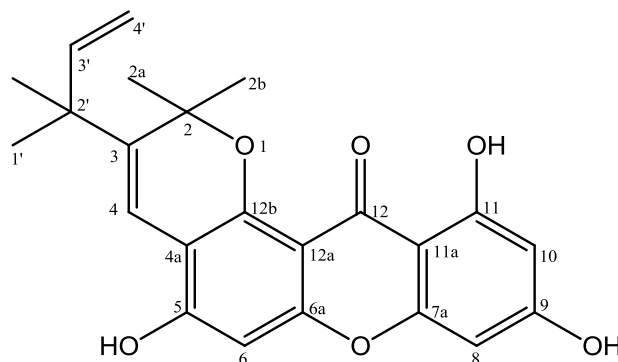


Figure 1. Structures of 5,9,11-trihydroxy-2,2-dimethyl-3-(2-methylbut-3-en-2-yl)pyrano[2,3-a]xanthen-12(2H)-one (**1**).