A new coumarin from stem bark of *Mesua hexapetala*

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**ABSTRACT**

A new alkylated coumarin derivative, hexapetarin (1) along with three other xanthones, trapezofolixanthone (2), cudraxonthone G (3) and 1,3,7-trihydroxy-2,4-di-(3-methyl-2-butenyl)xanthone (4), and four common triterpenoids, friedelin (5), stigmasterol (6), betasitosterol (7) and gamma-sitosterol (8) were isolated from the stem bark of *Mesua hexapetala* (Clusiaceae), a plant, native to Malaysia. The structures of these compounds were elucidated and determined using spectroscopic techniques such as NMR and MS. Anti-inflammatory activity assay indicated hexapetarin (1) to possess moderate anti-inflammatory activity, while 1,3,7-trihydroxy-2,4-di-(3-methyl-2-butene)xanthone (4) gave very good activity.

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1. Introduction

The genus *Mesua* from the Clusiaceae family is known as a flowering genus. It is known to the local Malaysian society as ironwood due to its hard and very heavy wood, which is used for...