

## **Supporting Information**

for

## Cassane diterpenoids with $\alpha$ -glucosidase inhibitory activity from the fruits of *Pterolobium macropterum*

Sarot Cheenpracha, Ratchanaporn Chokchaisiri, Lucksagoon Ganranoo, Sareeya Bureekaew, Thunwadee Limtharakul and Surat Laphookhieo

Beilstein J. Org. Chem. 2023, 19, 658–665. doi:10.3762/bjoc.19.47

Copies of NMR spectra for compounds 1 and 3

License and Terms: This is a supporting information file under the terms of the Creative Commons Attribution License (https://creativecommons.org/ licenses/by/4.0). Please note that the reuse, redistribution and reproduction in particular requires that the author(s) and source are credited and that individual graphics may be subject to special legal provisions.

## **Table of contents**

	Page
<b>Figure S1.</b> <sup>1</sup> H NMR (500 MHz, CDCl <sub>3</sub> ) spectrum of $14\beta$ -hydroxycassa-11(12),13(15)-	S3
$\mathbf{G} = \mathbf{G} = \mathbf{G} + \mathbf{G} + \mathbf{G} = \mathbf{G} + $	<b>S</b> 2
Figure S2. <sup>15</sup> C NMR (125 MHz, CDCl <sub>3</sub> ) spectrum of 14 $\beta$ -nydroxycassa-	22
11(12), 13(15)-dien-12, 16-olide (1)	<b>a</b> 4
<b>Figure S3</b> . DEPT135 spectrum of $14\beta$ -hydroxycassa-11(12),13(15)-dien-12,16-olide	<b>S</b> 4
(1)	
<b>Figure S4</b> . <sup>1</sup> H- <sup>1</sup> H COSY spectrum of $14\beta$ -hydroxycassa- $11(12)$ , $13(15)$ -dien- $12$ , $16$ -	<b>S</b> 4
olide (1)	
<b>Figure S5</b> . HMQC spectrum of 14β-hydroxycassa-11(12),13(15)-dien-12,16-olide (1)	<b>S</b> 5
Figure S6. HMBC spectrum of $14\beta$ -hydroxycassa- $11(12)$ , $13(15)$ -dien- $12$ , $16$ -olide (1)	<b>S</b> 6
<b>Figure S7</b> . NOESY spectrum of $14\beta$ -hydroxycassa-11(12),13(15)-dien-12,16-olide (1)	<b>S</b> 7
Figure S8. <sup>1</sup> H NMR (500 MHz, CDCl <sub>3</sub> ) spectrum of 6'-acetoxypterolobirin B (3)	<b>S</b> 8
Figure S9. <sup>13</sup> C NMR (125 MHz, CDCl <sub>3</sub> ) spectrum of 6'-acetoxypterolobirin B (3)	<b>S</b> 8
Figure S10. DEPT135 spectrum of 6'-acetoxypterolobirin B (3)	<b>S</b> 9
Figure S11. <sup>1</sup> H, <sup>1</sup> H COSY spectrum of 6'-acetoxypterolobirin B (3)	<b>S</b> 9
Figure S12. HMQC spectrum of 6'-acetoxypterolobirin B (3)	S10
Figure S13. HMBC spectrum of 6'-acetoxypterolobirin B (3)	S11
Figure S14. NOESY spectrum of 6'-acetoxypterolobirin B (3)	S11
Figure S15. Magnified NOESY spectrum of 6'-acetoxypterolobirin B (3)	S13



**Figure S1**. <sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) spectrum of  $14\beta$ -hydroxycassa-11(12),13(15)-dien-12,16-olide (1).



Figure S2. <sup>13</sup>C NMR (125 MHz, CDCl<sub>3</sub>) spectrum of 14 $\beta$ -hydroxycassa-11(12),13(15)-dien-12,16-olide (1).



Figure S3. DEPT135 spectrum of  $14\beta$ -hydroxycassa-11(12),13(15)-dien-12,16-olide (1).



Figure S4. <sup>1</sup>H-<sup>1</sup>H COSY spectrum of  $14\beta$ -hydroxycassa-11(12),13(15)-dien-12,16-olide (1).



Figure S5. HMQC spectrum of  $14\beta$ -hydroxycassa-11(12),13(15)-dien-12,16-olide (1).



Figure S6. HMBC spectrum of  $14\beta$ -hydroxycassa-11(12),13(15)-dien-12,16-olide (1).



Figure S7. NOESY spectrum of  $14\beta$ -hydroxycassa-11(12),13(15)-dien-12,16-olide (1).



Figure S8. <sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) spectrum of 6'-acetoxypterolobirin B (3).



Figure S9. <sup>13</sup>C NMR (125 MHz, CDCl<sub>3</sub>) spectrum of 6'-acetoxypterolobirin B (3).



Figure S10. DEPT135 spectrum of 6'-acetoxypterolobirin B (3).



**Figure S11**. <sup>1</sup>H, <sup>1</sup>H COSY spectrum of 6'-acetoxypterolobirin B (3).



Figure S12. HMQC spectrum of 6'-acetoxypterolobirin B (3).



Figure S13. HMBC spectrum of 6'-acetoxypterolobirin B (3).



Figure S14. NOESY spectrum of 6'-acetoxypterolobirin B (3).



Figure S15. Magnified NOESY spectrum of 6'-acetoxypterolobirin B (3).