Norterpenoids and Related Peroxides from the Formosan Marine Sponge

* S. corticata

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Table S1. Comparison of NMR data of isolates 1 and 2 with literature data.

For compound 4:
S1-1. $^1$H NMR spectrum (300 MHz) of compound 4 in CDCl$_3$.
S1-2. $^{13}$C NMR spectrum (300 MHz) of compound 4 in CDCl$_3$.
S1-3. HRESIMS spectrum of compound 4.

For compound 5 and its methyl ester 5a:
S2-1. $^1$H NMR spectrum (500 MHz) of compound 5 in CDCl$_3$.
S2-2. $^{13}$C NMR spectrum (500 MHz) of compound 5 in CDCl$_3$.
S2-3. HRESIMS spectrum of compound 5.
S2-4. $^1$H NMR spectrum (300 MHz) of methyl ester 5a in CDCl$_3$.
S2-5. $^{13}$C NMR spectrum (300 MHz) of methyl ester 5a in CDCl$_3$.

For compound 6/7 and the methyl ester 6a/7a:
S3-1. $^1$H NMR spectrum (300 MHz) of compound 6/7 in CDCl$_3$.
S3-2. $^{13}$C NMR spectrum (300 MHz) of compound 6/7 in CDCl$_3$.
S3-3. HRESIMS spectrum of compound 6/7.
S3-4. $^1$H NMR spectrum (300 MHz) of methyl ester 6a/7a in CDCl$_3$.
S3-5. $^{13}$C NMR spectrum (300 MHz) of methyl ester 6a/7a in CDCl$_3$.

For compound 8 and its MTPA esters 8a and 8b:
S4-1. $^1$H NMR spectrum (300 MHz) of compound 8 in CDCl$_3$.
S4-2. $^{13}$C NMR spectrum (300 MHz) of compound 8 in CDCl$_3$.
S4-3. HRESIMS spectrum of compound 8.
S4-4. $^1$H NMR spectrum (300 MHz) of diol derived from 2 in CDCl$_3$.
S4-5. $^{13}$C NMR spectrum (300 MHz) of diol derived from 2 in CDCl$_3$.
S4-6. $^1$H NMR spectrum (300 MHz) of ($S$)-MTPA ester 8a in CDCl$_3$.
S4-7. $^1$H NMR spectrum (300 MHz) of ($R$)-MTPA ester 8b in CDCl$_3$.

For compound 9:
S5-1. $^1$H NMR spectrum (300 MHz) of compound 9 in CDCl$_3$.
S5-2. $^{13}$C NMR spectrum (300 MHz) of compound 9 in CDCl$_3$.
S5-3. HRESIMS spectrum of compound 9.

For compound 10:
S6-1. $^1$H NMR spectrum (300 MHz) of compound 10 in CDCl$_3$. 
S6-2. $^{13}$C NMR spectrum (300 MHz) of compound 10 in CDCl$_3$.

S6-3. HRESIMS spectrum of compound 10.
Table S1. Comparison of NMR data of isolates 1 and 2 with literature data

<table>
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<tr>
<th>position</th>
<th>2 (300 MHz, CDCl$_3$)</th>
<th>(+)-nuapapuin B methyl ester (CDCl$_3$)</th>
<th>1 (300 MHz, CDCl$_3$)</th>
<th>1 (400MHz, CD$_2$OD)</th>
<th>(+)-nuapapuin B (CD$_2$OD)</th>
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<tr>
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<td>$\delta_H$ (J in Hz)</td>
<td>$\delta_C$, mult</td>
<td>$\delta_H$ (J in Hz)$^b$</td>
<td>$\delta_C$, mult</td>
<td>$\delta_H$ (J in Hz)$^b$</td>
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$^a$ Only selected $^1$H NMR data were provided in the literature. $^b$ The assignments of CH$_2$ carbons for C-4, C-7, and C-12 were revised according to our present work. $^c$ The chemical shift was not found in the original literature. $^d$ The assignments of CH$_2$ carbons for C-4, C-5, C-7, C-11, and C-12 were revised according to our present work. The assignment of NMR data of isolates 1 and 2 were based on the interpretation of 2D NMR experiment.
S1-1. $^1$H NMR spectrum (300 MHz) of compound 4 in CDCl$_3$. 
S1-2. $^{13}$C NMR spectrum (300 MHz) of compound 4 in CDCl$_3$. 
S1-3. HRESIMS spectrum of compound 4.
S2-1. $^1$H NMR spectrum (500 MHz) of compound 5 in CDCl$_3$. 
$^{13}$C NMR spectrum (500 MHz) of compound $5$ in CDCl$_3$. 

S2.2.
S2-3. HRESIMS spectrum of compound 5.
S2-4. $^1$H NMR spectrum (300 MHz) of methyl ester 5a in CDCl$_3$. 
S2-5. $^{13}$C NMR spectrum (300 MHz) of methyl ester 5a in CDCl$_3$. 
S.1. $^1$H NMR spectrum (300 MHz) of compound 6/7 in CDCl$_3$. 
S3.2. \(^{13}\)C NMR spectrum (300 MHz) of compound 6/7 in CDCl₃.
S3-3. HRESIMS spectrum of compound 6/7.
S3-4. $^1$H NMR spectrum (300 MHz) of methyl ester 6a/7a in CDCl$_3$. 
S3-5. $^{13}$C NMR spectrum (300 MHz) of methyl ester 6a/7a in CDCl$_3$. 
S4-1. $^1$H NMR spectrum (300 MHz) of compound 8 in CDCl$_3$. 
S4.2. $^{13}$C NMR spectrum (300 MHz) of compound 8 in CDCl$_3$. 
S4-3. HRESIMS spectrum of compound 8.
**S4-4.** $^1$H NMR spectrum (300 MHz) of diol derived from 2 in CDCl$_3$. 
\textbf{S4-5.} $^{13}$C NMR spectrum (300 MHz) of diol derived from 2 in CDCl$_3$. 
S4-6. $^1$H NMR spectrum (300 MHz) of (S)-MTPA ester 8a in CDCl$_3$. 
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S5-3. HRESIMS spectrum of compound 9.
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S6-2. $^{13}$C NMR spectrum (300 MHz) of compound 10 in CDCl$_3$. 
S6-3. HRESIMS spectrum of compound 10.