Supporting Information

Pitiamides A and B, Multifunctional Fatty Acid Amides from Marine Cyanobacteria

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Fig. S1 $^1$H NMR spectrum of 1E-pitiamide B (1) in CDCl$_3$ (600 MHz).

Fig. S2 COSY NMR spectrum of 1E-pitiamide B (1) in CDCl$_3$ (600 MHz).

Fig. S3 TOCSY NMR spectrum of 1E-pitiamide B (1) in CDCl$_3$ (600 MHz).

Fig. S4 HSQC NMR spectrum of 1E-pitiamide B (1) in CDCl$_3$ (600 MHz).

Fig. S5 HMBC NMR spectrum of 1E-pitiamide B (1) in CDCl$_3$ (600 MHz).

Fig. S6 $^1$H NMR spectrum of 1Z-pitiamide B (2) in CDCl$_3$ (600 MHz).

Fig. S7 COSY NMR spectrum of 1Z-pitiamide B (2) in CDCl$_3$ (600 MHz).

Fig. S8 TOCSY NMR spectrum of 1Z-pitiamide B (2) in CDCl$_3$ (600 MHz).

Fig. S9 HSQC NMR spectrum of 1Z-pitiamide B (2) in CDCl$_3$ (600 MHz).

Fig. S10 HMBC NMR spectrum of 1Z-pitiamide B (2) in CDCl$_3$ (600 MHz).

Fig. S11 $^1$H NMR spectrum of pitiamide A in CDCl$_3$ (600 MHz).

Fig. S12 COSY NMR spectrum of pitiamide A in CDCl$_3$ (600 MHz).

Fig. S13 TOCSY NMR spectrum of pitiamide A in CDCl$_3$ (600 MHz).

Fig. S14 HSQC NMR spectrum of pitiamide A in CDCl$_3$ (600 MHz).

Fig. S15 HMBC NMR spectrum of pitiamide A in CDCl$_3$ (600 MHz).

Table S1 Reported optical activity of model compounds with an $\alpha$-ketone stereocenter and similar structure scaffold.
Fig. S1 $^1$H NMR spectrum of $1E$-pitiamic B (1) in CDCl$_3$ (600 MHz).
Fig. S2 COSY spectrum of 1E-pitiamide B (I) in CDCl₃ (600 MHz).
Fig. S3 TOCSY spectrum of 1E-pitiamide B (1) in CDCl₃ (600 MHz).
Fig. S4 HSQC spectrum of 1E-pitiamide B (1) in CDCl$_3$ (600 MHz).
Fig. S5 HMBC spectrum of 1E-pitiamide B (1) in CDCl₃ (600 MHz).
Fig. S6 $^1$H NMR spectrum of 1Z-pitiamide B (2) in CDCl$_3$ (600 MHz).
Fig. S7 COSY spectrum of 1Z-pitiamide B (2) in CDCl₃ (600 MHz).
Fig. S8 TOCSY spectrum of 1Z-pitiamide B (2) in CDCl$_3$ (600 MHz).
Fig. S9 HSQC spectrum of 1Z-pitiamide B (2) in CDCl$_3$ (600 MHz).
Fig. S10 HMBC spectrum of 1Z-pitiamide B (2) in CDCl$_3$ (600 MHz).
**Fig. S11** $^1$H NMR spectrum of pitiamide A in CDCl$_3$ (600 MHz).
Fig. S12 COSY spectrum of pitiamide A in CDCl$_3$ (600 MHz).
Fig. S13 TOCSY spectrum of pitiamide A in CDCl$_3$ (600 MHz).
Fig. S14 HSQC spectrum of pitiamide A in CDCl₃ (600 MHz).
Fig. S15 HMBC spectrum of pitiamide A in CDCl$_3$ (600 MHz).
**Table S1** Reported optical activity of model compounds with an α-ketone stereocenter and similar structure scaffold.

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<tr>
<th>Number</th>
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