Supplementary Materials

Cytotoxicity and antibacterial activities of a group of amicoumacins from a marine-derived bacterium *Bacillus subtilis*

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   E-mail: xianrong.guo@kaust.edu.sa (X.G.); xixiang.zhang@kaust.edu.sa (X.Z.)
³ State Key Laboratory of Natural and Biomimetic Drugs, Peking University,
   Beijing 100191, P.R. China; E-mail: whlin@bjmu.edu.cn

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  Tel.: +852-2358-7331; Fax: +852-2358-1559

Supporting information 1

<table>
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<tr>
<th>Table</th>
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<td>bacilosarcin C (5) and bacilosarcin B (6)</td>
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Table 1. NMR data of lipoamicoumacins A–D (1–4)

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Table 2. NMR data of bacilosarcin C (5) and bacilosarcin B (6) in CD₃OD

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Table 2. NMR data of bacilosarcin C (5) and bacilosarcin B (6) in CD₃OD
### Table 3. Antibacterial activities and cytotoxicity of amicoumacin derivates

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*NA: MIC > 100μM (antibacterial) or IC50 > 100μM (cytotoxicity)*
Cytotoxicity and antibacterial activities of a group of amicoumacins from a marine-derived bacterium *Bacillus subtilis*

Yongxin Li¹, Ying Xu¹, Lingli Liu¹, Zhuang Han¹, Pok Yui Lai¹, Xiangrong Guo², Xixiang Zhang², Wenhan Lin³, Pei-Yuan Qian⁴*

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³ State Key Laboratory of Natural and Biomimetic Drugs, Peking University, Beijing 100191, P.R. China; E-mail: whlin@bjmu.edu.cn

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Fig 5-6  NOESY spectrum of 5........................................................................................................25
Fig 5-7  CD spectrum of 5 ........................................................................................................26
Fig 5-8  IR spectrum of 5 ........................................................................................................26
Fig 5-9  HRESIMS spectrum of 5..........................................................................................27
Fig 1-1  1H NMR spectrum of 1

Fig 1-2 DEPT spectrum of 1
Fig 1-3 COSY spectrum of 1

Fig 1-4 HMQC spectrum of 1
Fig 1-5 HMBC spectrum of 1

Fig 1-6 NOESY spectrum of 1
Fig 1-7 CD spectrum of 1

Fig 1-8 CD spectrum of 1
Fig 1-9 HRESIMS spectrum of 1

Fig 1-10 ESIMS spectrum of 1
Fig 2-1 $^1$H NMR spectrum of 2

Fig 2-2 DEPT spectrum of 2
Fig 2-3 $^1$H-$^1$HCOSY spectrum of 2

Fig 2-4 HMQC spectrum of 2
Fig 2-5 HMBC spectrum of 2

Fig 2-6 NOESY spectrum of 2
Fig 2-7 CD spectrum of 2

Fig 2-8 IR spectrum of 2
Fig 2-9 HRESIMS spectrum of 2

Fig 2-10 ESIMS spectrum of 2
Fig 3-1 $^{1}$HNMR spectrum of 3

Fig 3-2 $^{13}$CNMR spectrum of 3
Fig 3-3 $^1\text{H-}^1\text{HCOSY}$ spectrum of 3

Fig 3-4 HMQC spectrum of 3
Fig 3-5 HMBC spectrum of 3

Fig 3-6 IR spectrum of 3
Fig 3-7 CD spectrum of 3

Fig 3-8 HRESIMS spectrum of 3

Fig 3-9 ESIMS spectrum of 3
Fig 4-1 $^1$HNMR spectrum of 4

Fig 4-2 $^{13}$CNMR spectrum of 4
Fig 4.3 $^1$H-$^1$HCOSY spectrum of 4

Fig 4.4 HMOC spectrum of 4
Fig 4-5 HMBC spectrum of 4

Fig 4-6 NOESY spectrum of 4
Fig 4-7 CD spectrum of 4

Fig 4-8 IR spectrum of 4
Fig 4-9 HRESIMS spectrum of 4

Fig 4-10 ESIMS spectrum of 4
Fig 5-1 $^1$HNMR spectrum of 5

Fig 5-2 $^1$HNMR spectrum of 6
Fig 5.3 $^1$H-$^1$HCOSY spectrum of 5

Fig 5.4 HMQC spectrum of 5
Fig 5-5 HMBC spectrum of 5

Fig 5-6 NOESY spectrum of 5
Fig 5-7 CD spectrum of 5

Fig 5-8 IR spectrum of 5
Fig 5.9 HRESIMS spectrum of 5