Paulomycin G, a new natural product with cytotoxic activity against tumor cell lines produced by a deep-sea sediment derived *Micromonospora matsumotoense* M-412 from the Avilés Canyon in the Cantabrian Sea

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List of supplementary materials

**Figure S1.** HPLC trace of the sample isolated.

**Figure S2.** UV spectrum of compound 1.

**Figure S3.** ESI-TOF spectra of compound 1.

**Figure S4.** UV spectrum of compound 2.

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**Figure S6.** ¹H NMR spectrum (DMSO-<i>d</i>₆, 500 MHz) of compound 1.

**Figure S7.** ¹³C NMR spectrum (DMSO-<i>d</i>₆, 125 MHz) of compound 1.

**Figure S8.** COSY spectrum (DMSO-<i>d</i>₆) of compound 1.

**Figure S9.** HSQC spectrum (DMSO-<i>d</i>₆) of compound 1.

**Figure S10.** HMBC spectrum (DMSO-<i>d</i>₆) of compound 1.

**Figure S11.** ROESY spectrum (DMSO-<i>d</i>₆) of compound 1.

**Figure S12.** Picture of *Micromonospora matsumotoense* M-412.
<table>
<thead>
<tr>
<th>Compound</th>
<th>Peak</th>
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<th>Area</th>
<th>% Area</th>
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<tr>
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<td>4.66</td>
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<td>16.5</td>
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**Figure S1.** HPLC trace of the sample isolated.

Maxima: 238, 276 and 320nm

**Figure S2.** UV spectrum of compound 1.
C_{20}H_{23}N_{2}O_{11}S^{+}: calc = 499.101707; exp = 499.1015; err = -0.4 ppm
C_{20}H_{26}N_{3}O_{11}S^{+}: calc = 516.128256; exp = 516.1278; err = -0.9 ppm
C_{20}H_{22}N_{2}O_{11}SNa^{+}: calc = 521.083651; exp = 521.0828; err = -1.6 ppm

Figure S3. ESI TOF spectra of compound 1.
Figure S4. UV spectrum of compound 2.

Figure S5. ESI TOF spectra of compound 2.

C_{20}H_{21}N_{2}O_{10}S^{+}: calc= 481.091142; exp= 481.0904; err=-1.5 ppm
C_{20}H_{19}N_{2}O_{9}S^{+}: calc= 463.080577; exp=463.0800; err=-1.2 ppm
C_{20}H_{22}N_{2}O_{10}SNa^{+}: calc= 503.073087; exp=503.0719; err=-2.4 ppm
Figure S6. $^1$H NMR (DMSO-$d_6$, 500 MHz) of compound 1.
Figure S7. $^{13}$C NMR (DMSO-$d_6$, 125 MHz) of compound 1.
Figure S8. COSY spectrum (DMSO-\textit{d}_6) of compound 1.
Figure S9. HSQC spectrum (DMSO-\textit{d}_6) of compound 1.
Figure S10. HMBC spectrum (DMSO-$d_6$) of compound 1.
Figure S11. ROESY spectrum (DMSO-$d_6$) of compound 1
Figure S12. Picture of *Micromonospora matsumotoense* M-412.