

## Supplementary Information for

### New Chromones from a Marine-derived Fungus, *Arthrinium* sp.

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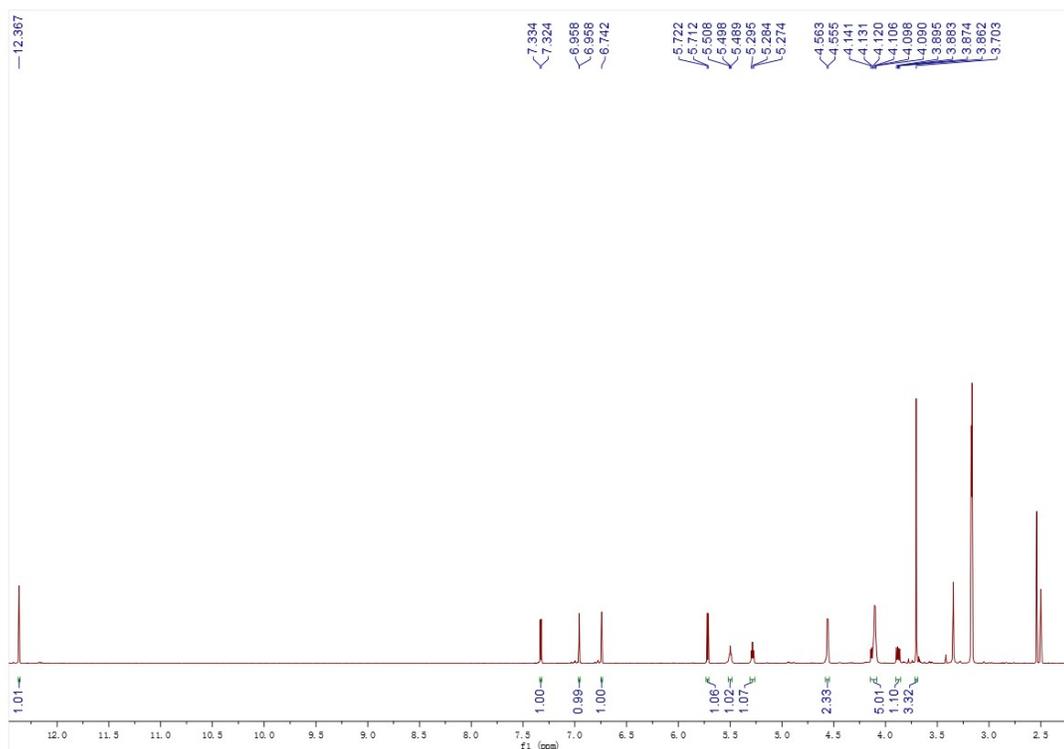
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#### List of supplementary information

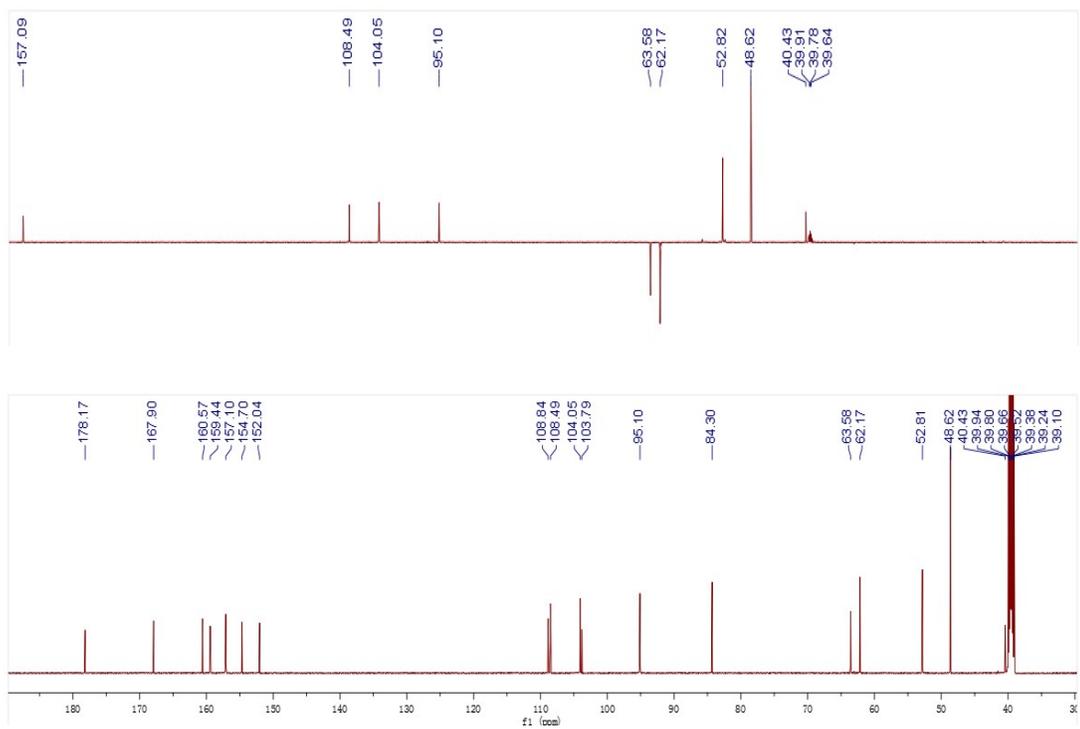
<b>Figure S1.</b> The <sup>1</sup> H-NMR spectrum of arthone A ( <b>1</b> ) in DMSO- <i>d</i> <sub>6</sub>	<b>P3</b>
<b>Figure S2.</b> The <sup>13</sup> C-NMR spectrum of arthone A ( <b>1</b> ) in DMSO- <i>d</i> <sub>6</sub>	<b>P3</b>
<b>Figure S3.</b> The HSQC spectrum of arthone A ( <b>1</b> ) in DMSO- <i>d</i> <sub>6</sub>	<b>P4</b>
<b>Figure S4.</b> The HMBC spectrum of arthone A ( <b>1</b> ) in DMSO- <i>d</i> <sub>6</sub>	<b>P4</b>
<b>Figure S5.</b> The (–)-HR-ESIMS spectrum of arthone A ( <b>1</b> )	<b>P5</b>
<b>Figure S6.</b> The <sup>1</sup> H-NMR spectrum of arthone B ( <b>2</b> ) in DMSO- <i>d</i> <sub>6</sub>	<b>P5</b>
<b>Figure S7.</b> The <sup>13</sup> C-NMR spectrum of arthone B ( <b>2</b> ) in DMSO- <i>d</i> <sub>6</sub>	<b>P6</b>
<b>Figure S8.</b> The HSQC spectrum of arthone B ( <b>2</b> ) in DMSO- <i>d</i> <sub>6</sub>	<b>P6</b>
<b>Figure S9.</b> The <sup>1</sup> H- <sup>1</sup> H COSY spectrum of arthone B ( <b>2</b> ) in DMSO- <i>d</i> <sub>6</sub>	<b>P7</b>
<b>Figure S10.</b> The HMBC spectrum of arthone B ( <b>2</b> ) in DMSO- <i>d</i> <sub>6</sub>	<b>P7</b>
<b>Figure S11.</b> The (+)-HR-ESIMS spectrum of arthone B ( <b>2</b> )	<b>P8</b>
<b>Figure S12.</b> The <sup>1</sup> H-NMR spectrum of arthone C ( <b>3</b> ) in DMSO- <i>d</i> <sub>6</sub>	<b>P8</b>
<b>Figure S13.</b> The <sup>13</sup> C-NMR spectrum of arthone C ( <b>3</b> ) in DMSO- <i>d</i> <sub>6</sub>	<b>P9</b>
<b>Figure S14.</b> The HSQC spectrum of arthone C ( <b>3</b> ) in DMSO- <i>d</i> <sub>6</sub>	<b>P9</b>
<b>Figure S15.</b> The HMBC spectrum of arthone C ( <b>3</b> ) in DMSO- <i>d</i> <sub>6</sub>	<b>P10</b>
<b>Figure S16.</b> The (+)-HR-ESIMS spectrum of arthone C ( <b>3</b> )	<b>P10</b>
<b>Figure S17.</b> The <sup>1</sup> H-NMR spectrum of arthone D ( <b>4</b> ) in DMSO- <i>d</i> <sub>6</sub>	<b>P11</b>

<b>Figure S18.</b> The $^{13}\text{C}$ -NMR spectrum of arthone D ( <b>4</b> ) in $\text{DMSO-}d_6$	<b>P11</b>
<b>Figure S19.</b> The HSQC spectrum of arthone D ( <b>4</b> ) in $\text{DMSO-}d_6$	<b>P12</b>
<b>Figure S20.</b> The HMBC spectrum of arthone D ( <b>4</b> ) in $\text{DMSO-}d_6$	<b>P12</b>
<b>Figure S21.</b> The (+)-HR-ESIMS spectrum of arthone D ( <b>4</b> )	<b>P13</b>
<b>Figure S22.</b> The $^1\text{H}$ -NMR spectrum of arthone E ( <b>5</b> ) in $\text{DMSO-}d_6$	<b>P13</b>
<b>Figure S23.</b> The $^{13}\text{C}$ -NMR spectrum of arthone E ( <b>5</b> ) in $\text{DMSO-}d_6$	<b>P14</b>
<b>Figure S24.</b> The HSQC spectrum of arthone E ( <b>5</b> ) in $\text{DMSO-}d_6$	<b>P14</b>
<b>Figure S25.</b> The $^1\text{H}$ - $^1\text{H}$ COSY spectrum of arthone E ( <b>5</b> ) in $\text{DMSO-}d_6$	<b>P15</b>
<b>Figure S26.</b> The HMBC spectrum of arthone E ( <b>5</b> ) in $\text{DMSO-}d_6$	<b>P15</b>
<b>Figure S27.</b> The (+)-HR-ESIMS spectrum of arthone E ( <b>5</b> )	<b>P16</b>
<b>Figure S28.</b> The $^1\text{H}$ -NMR spectrum of ( <i>R</i> )-MTPA ester of arthone B ( <b>2</b> ) in $\text{CDCl}_3$	<b>P16</b>
<b>Figure S29.</b> The $^1\text{H}$ - $^1\text{H}$ COSY spectrum of ( <i>R</i> )-MTPA ester of arthone B ( <b>2</b> ) in $\text{CDCl}_3$	<b>P17</b>
<b>Figure S30.</b> The $^1\text{H}$ -NMR spectrum of ( <i>S</i> )-MTPA ester of arthone B ( <b>2</b> ) in $\text{CDCl}_3$	<b>P17</b>
<b>Figure S31.</b> Experimental and theoretical ECD spectra for <b>5</b>	<b>P18</b>

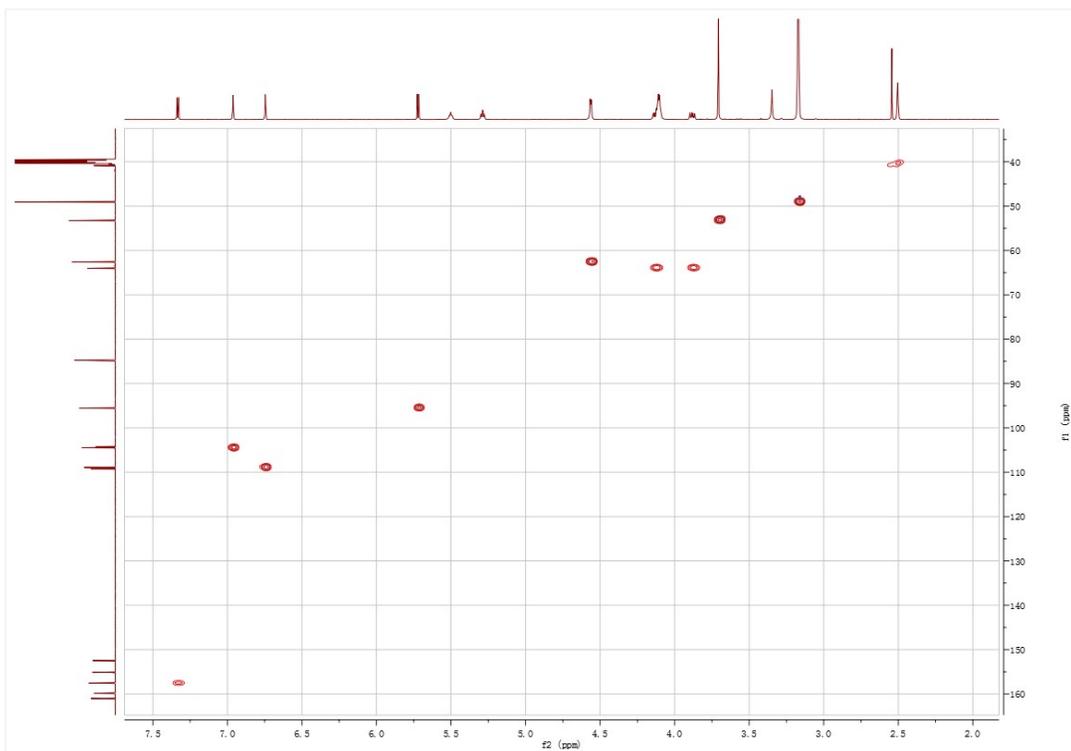
**Figure S1.** The  $^1\text{H-NMR}$  spectrum of arthone A (**1**) in  $\text{DMSO-}d_6$



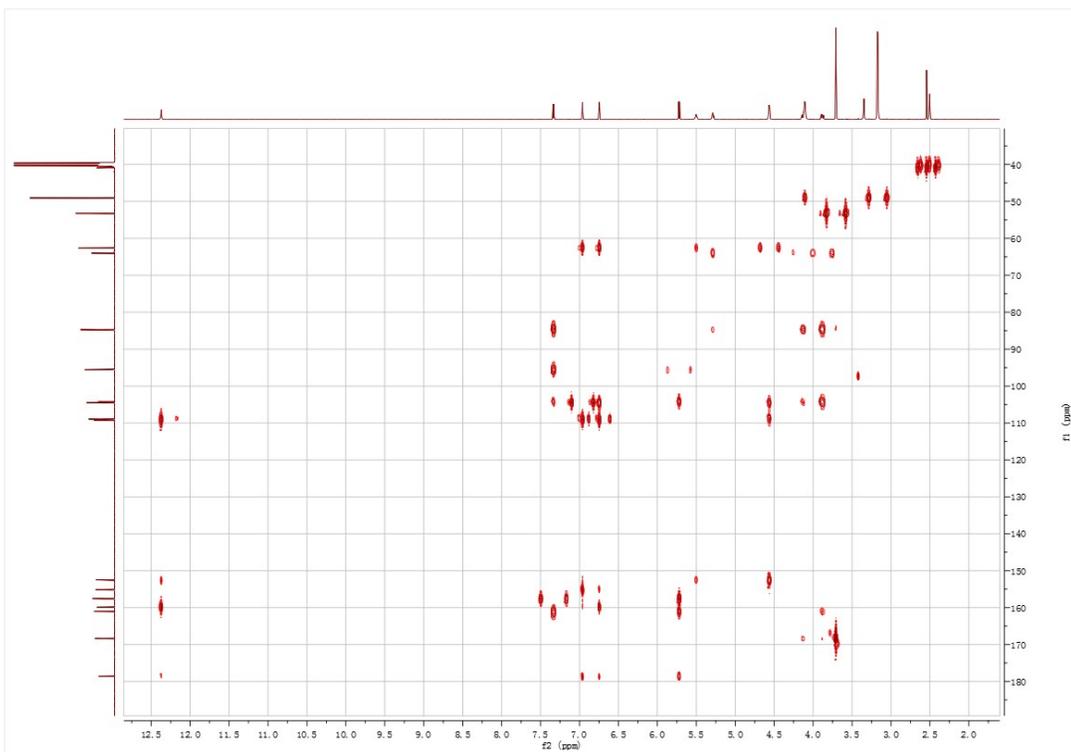
**Figure S2.** The  $^{13}\text{C-NMR}$  spectrum of arthone A (**1**) in  $\text{DMSO-}d_6$



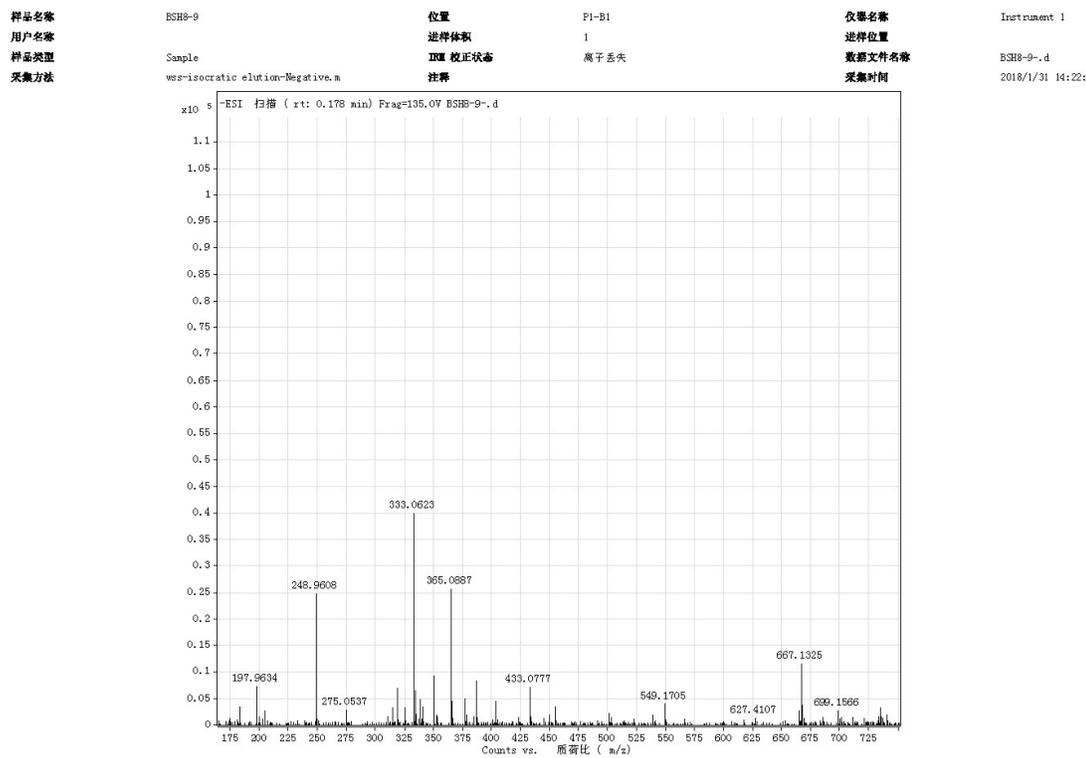
**Figure S3.** The HSQC spectrum of arthone A (**1**) in DMSO- $d_6$



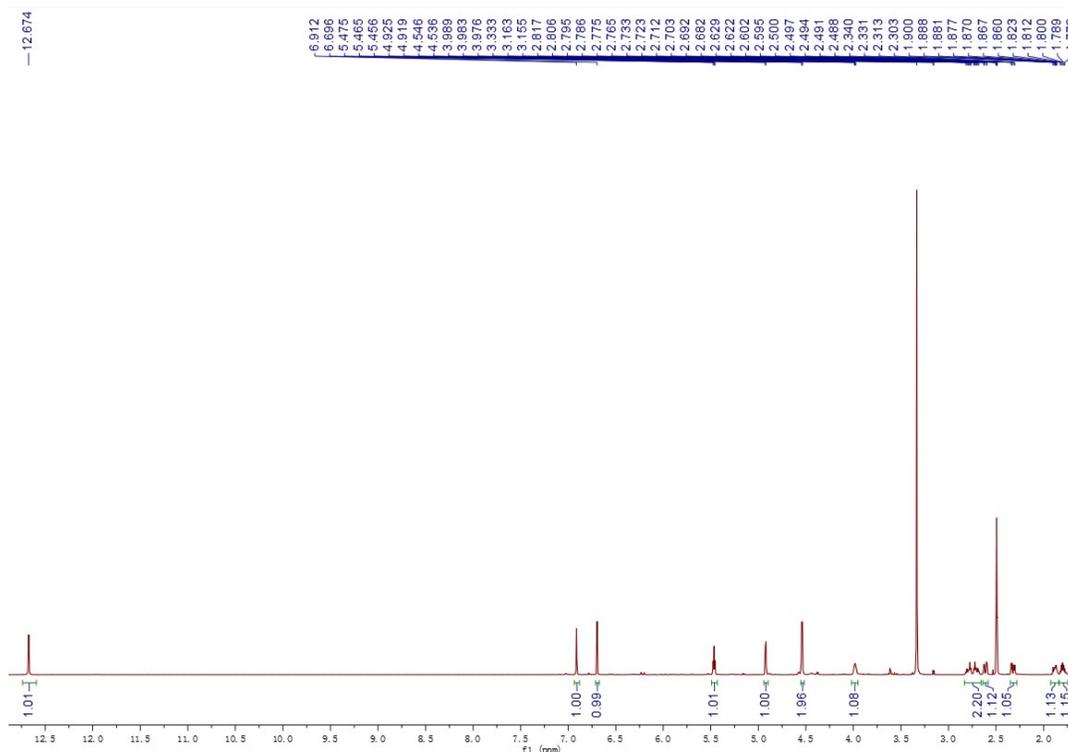
**Figure S4.** The HMBC spectrum of arthone A (**1**) in DMSO- $d_6$



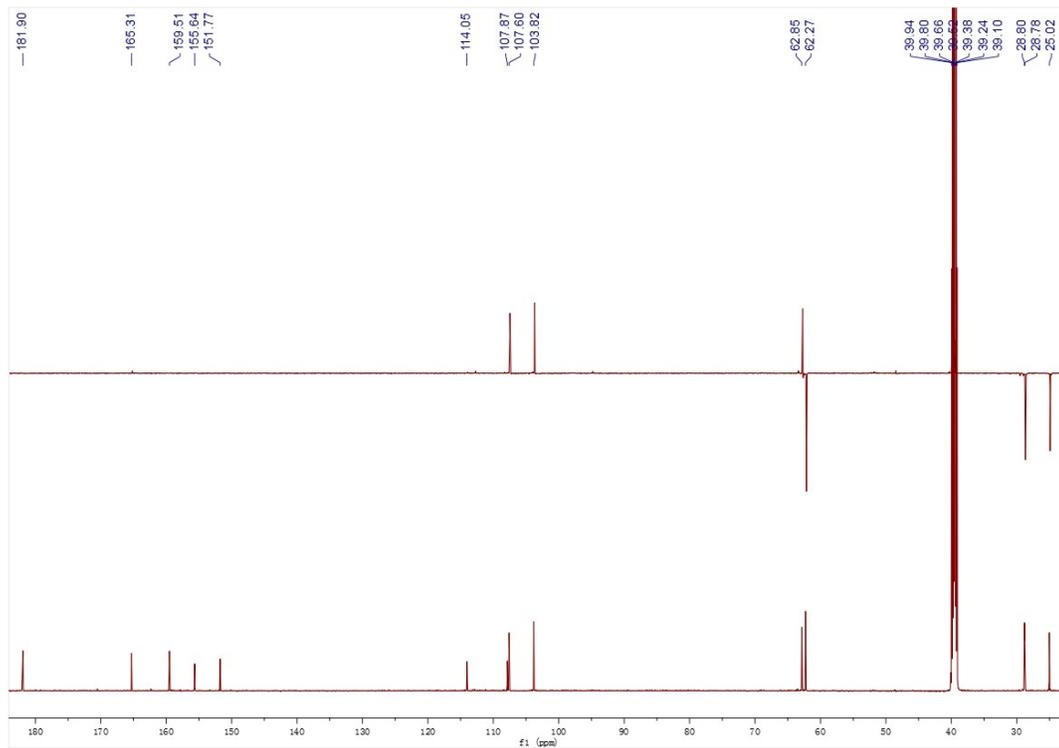
**Figure S5.** The (-)-HR-ESIMS spectrum of arthone A (1)



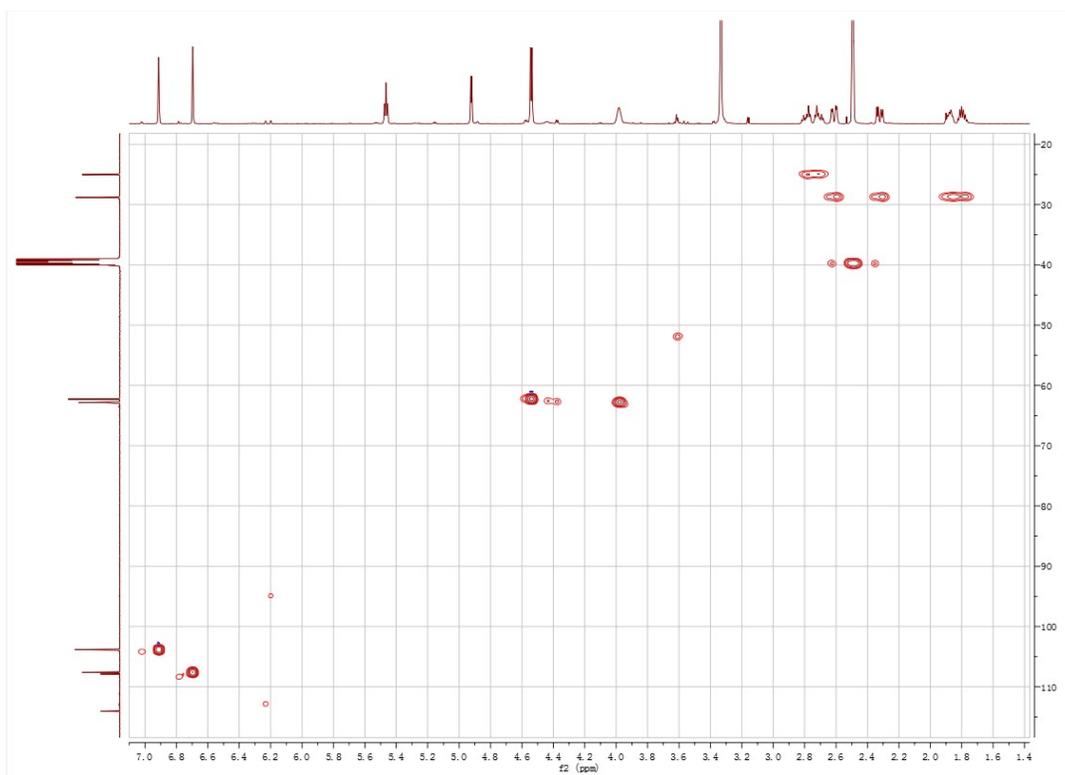
**Figure S6.** The <sup>1</sup>H-NMR spectrum of arthone B (2) in DMSO-*d*<sub>6</sub>



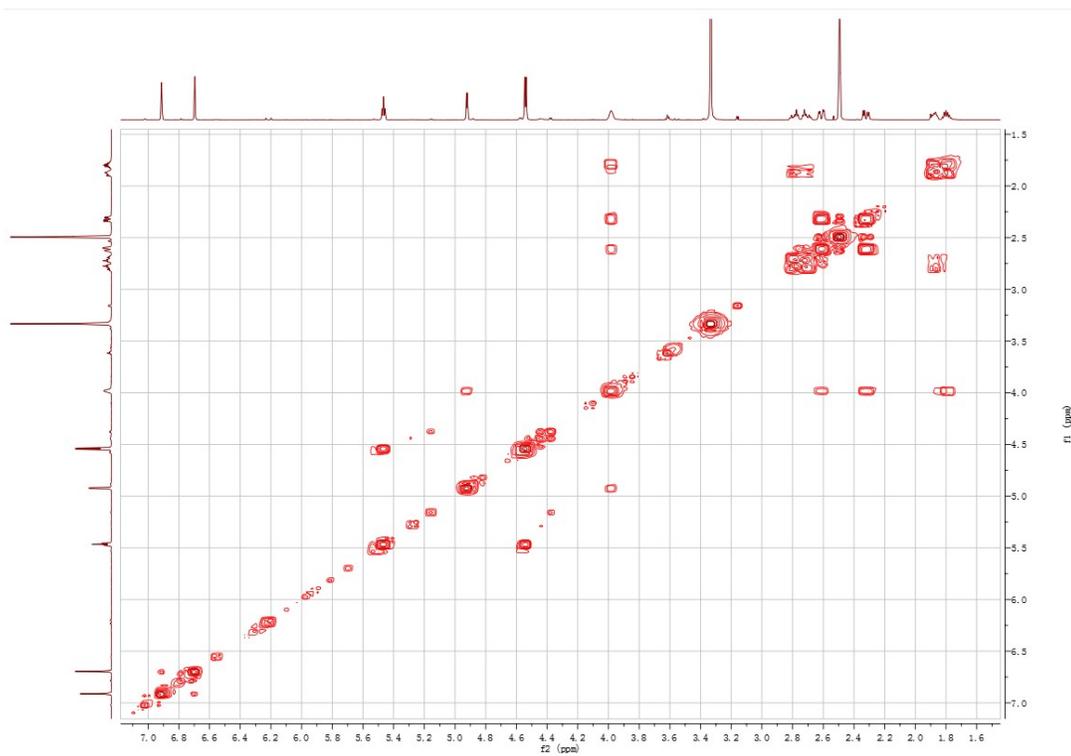
**Figure S7.** The  $^{13}\text{C}$ -NMR spectrum of arthone B (**2**) in  $\text{DMSO-}d_6$



**Figure S8.** The HSQC spectrum of arthone B (**2**) in  $\text{DMSO-}d_6$



**Figure S9.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of arthone B (**2**) in  $\text{DMSO-}d_6$



**Figure S10.** The HMBC spectrum of arthone B (**2**) in  $\text{DMSO-}d_6$

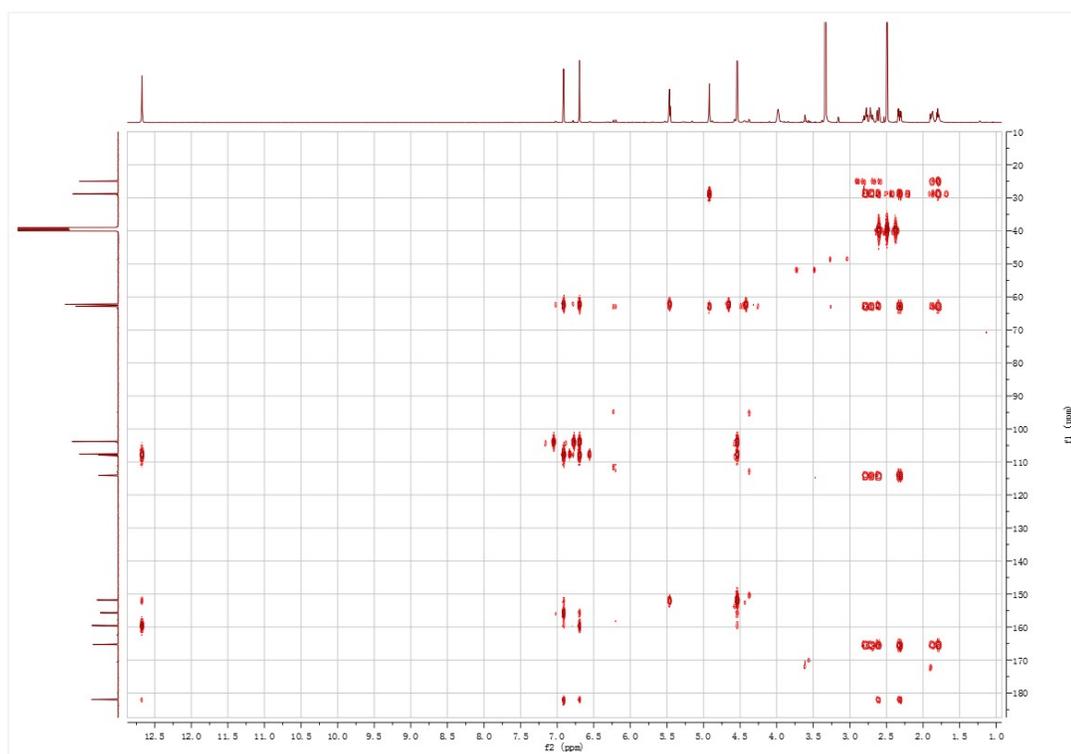


Figure S11. The (+)-HR-ESIMS spectrum of arthone B (2)

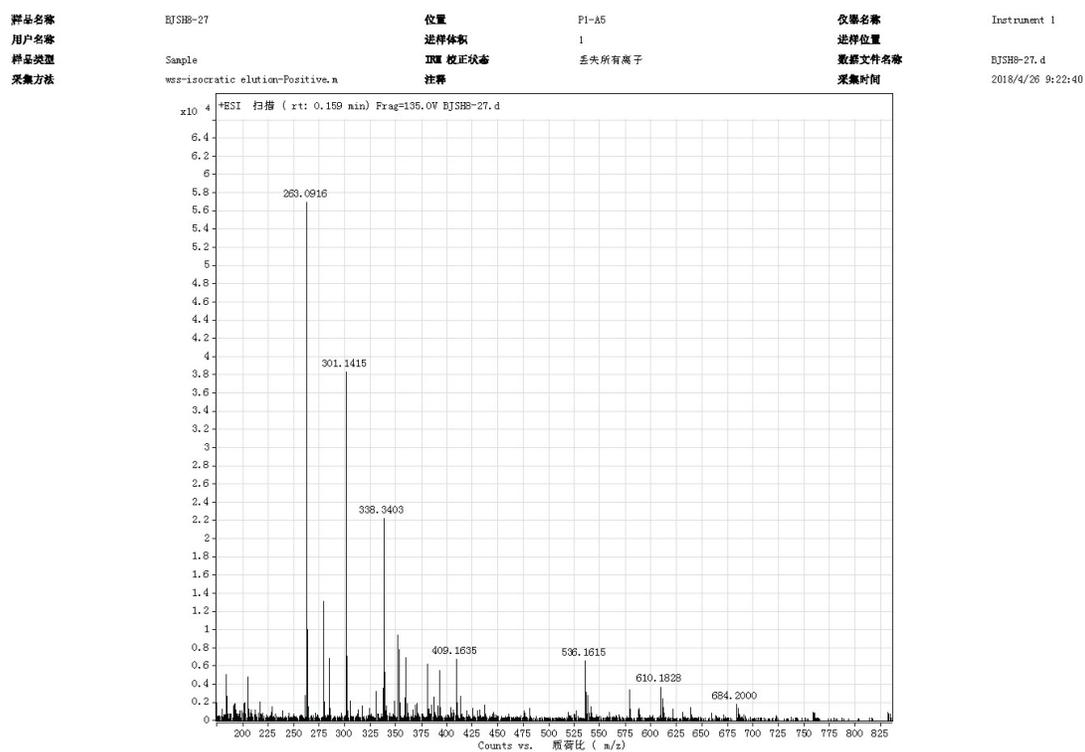
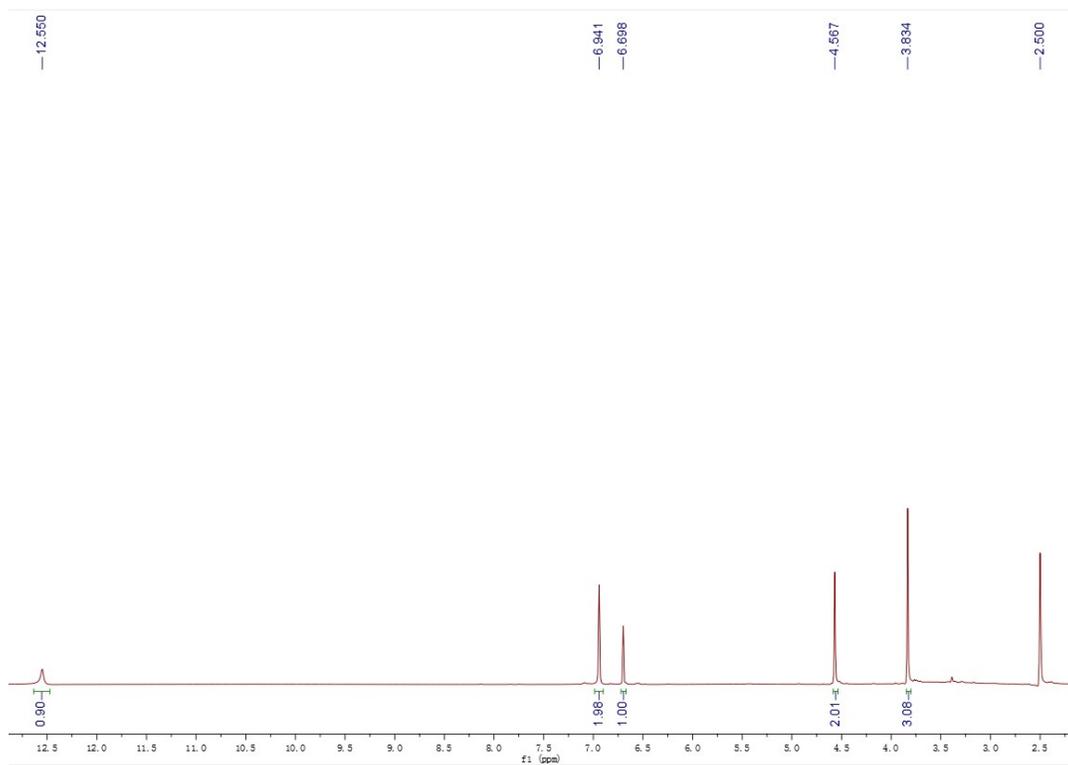
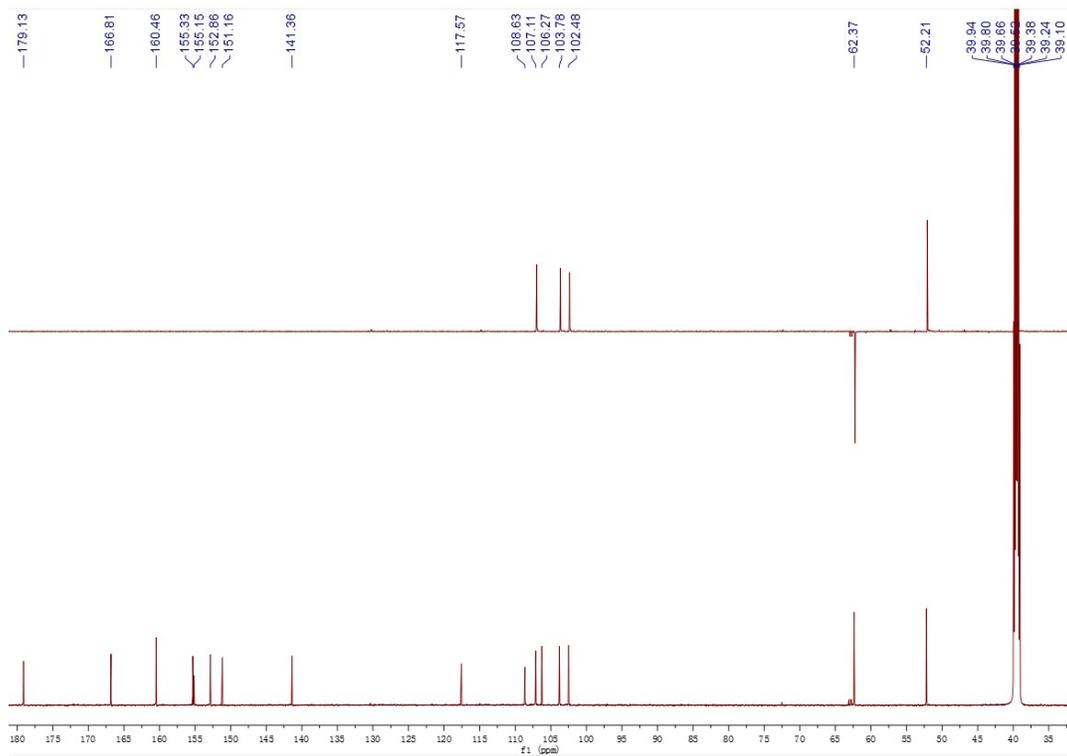


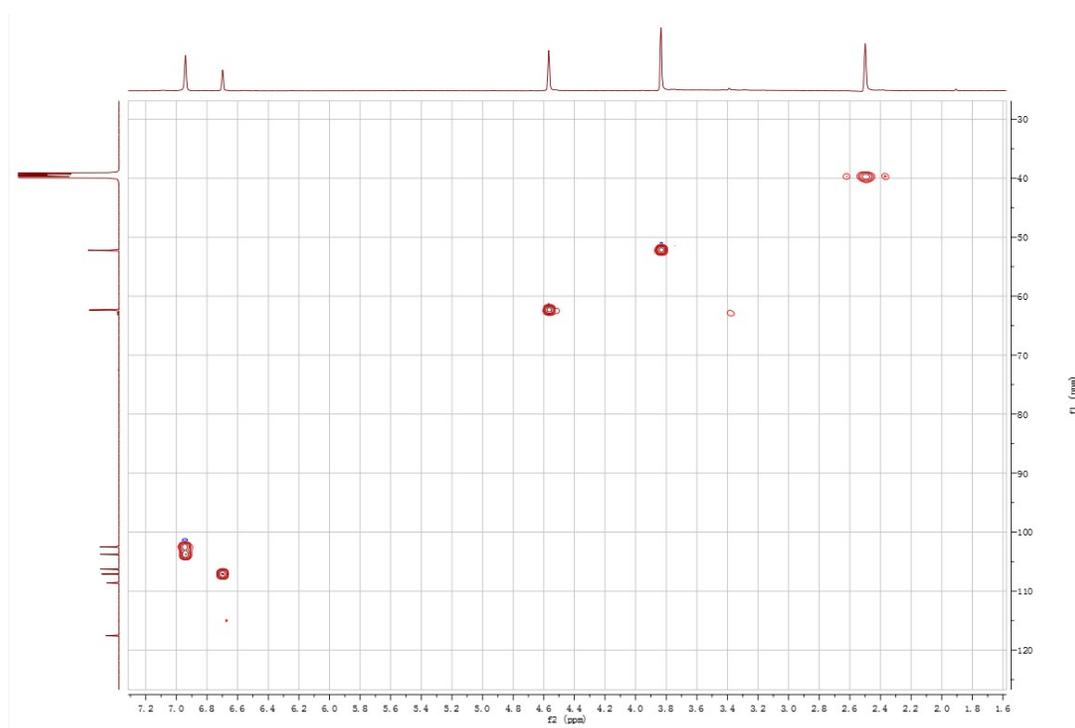
Figure S12. The <sup>1</sup>H-NMR spectrum of arthone C (3) in DMSO-*d*<sub>6</sub>



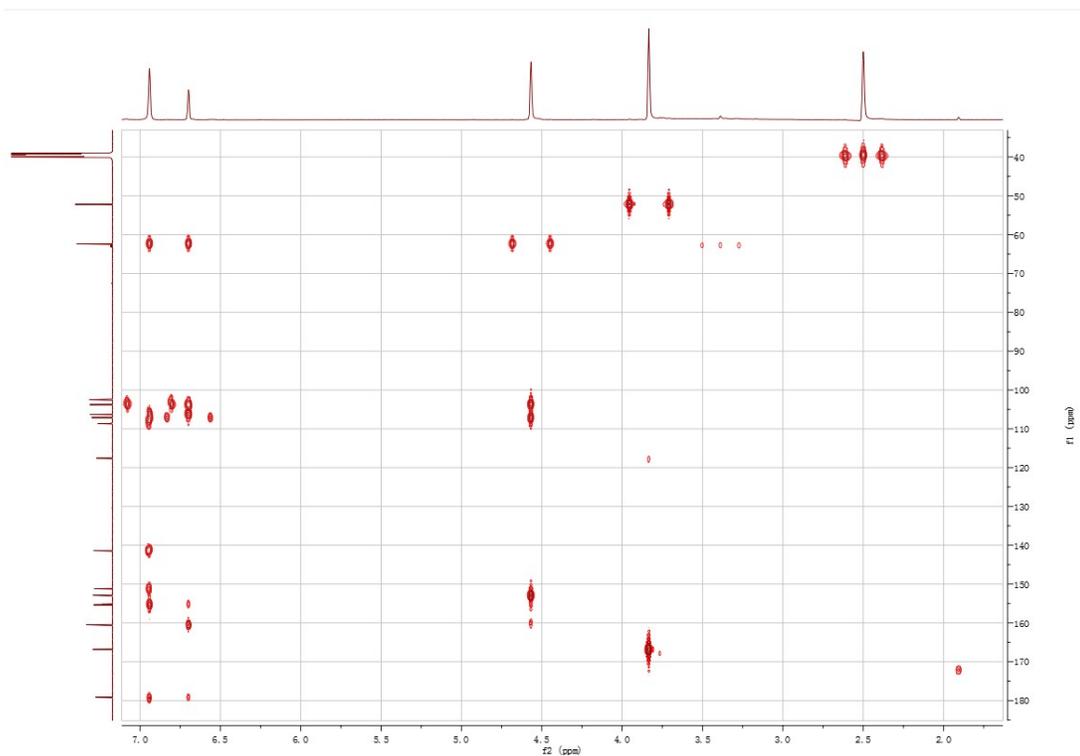
**Figure S13.** The  $^{13}\text{C}$ -NMR spectrum of arthone C (**3**) in  $\text{DMSO-}d_6$



**Figure S14.** The HSQC spectrum of arthone C (**3**) in  $\text{DMSO-}d_6$

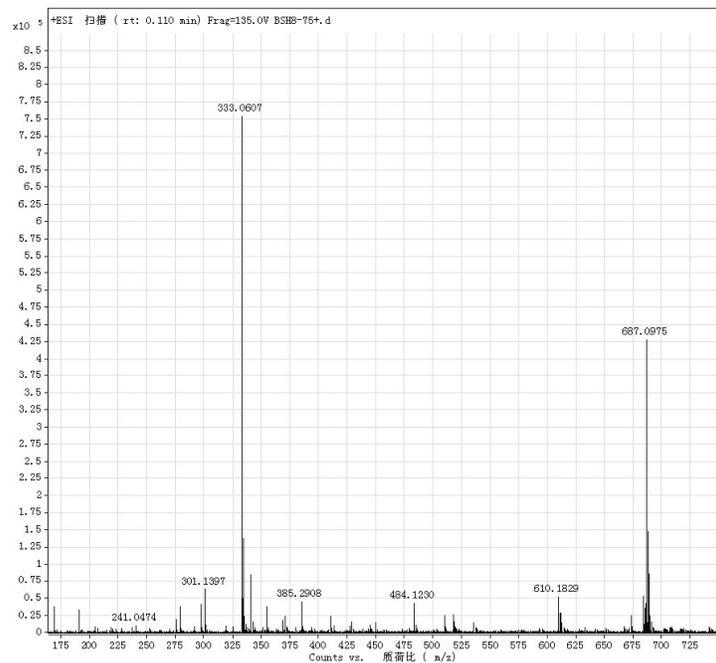


**Figure S15.** The HMBC spectrum of arthone C (**3**) in DMSO- $d_6$

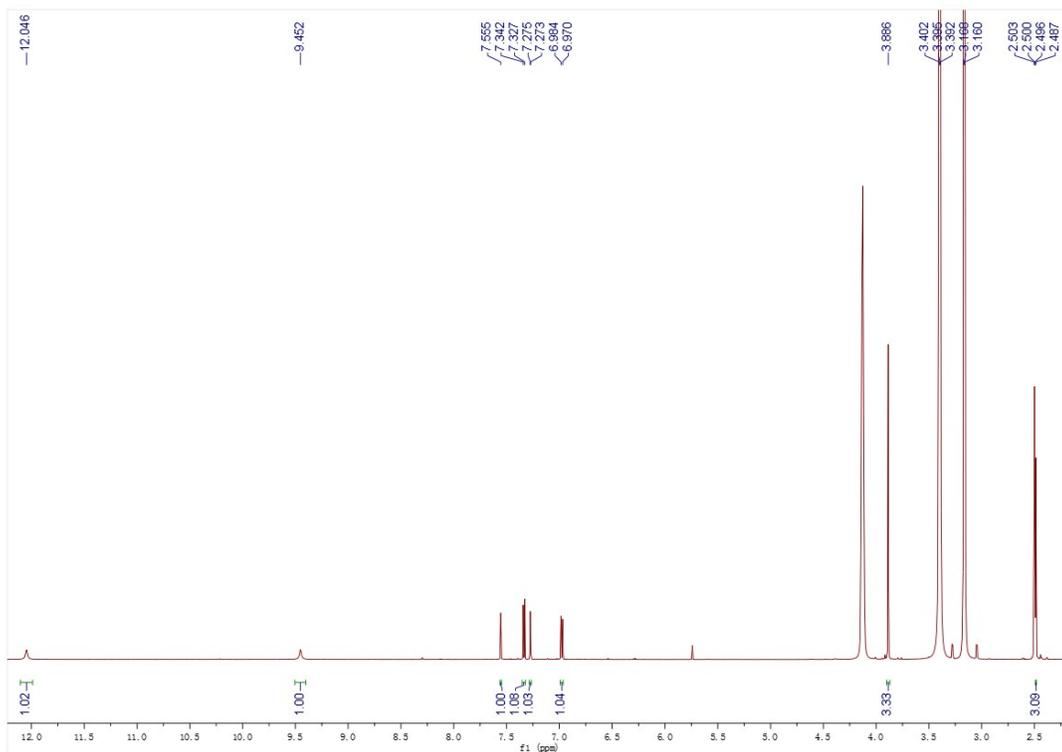


**Figure S16.** The (+)-HR-ESIMS spectrum of arthone C (**3**)

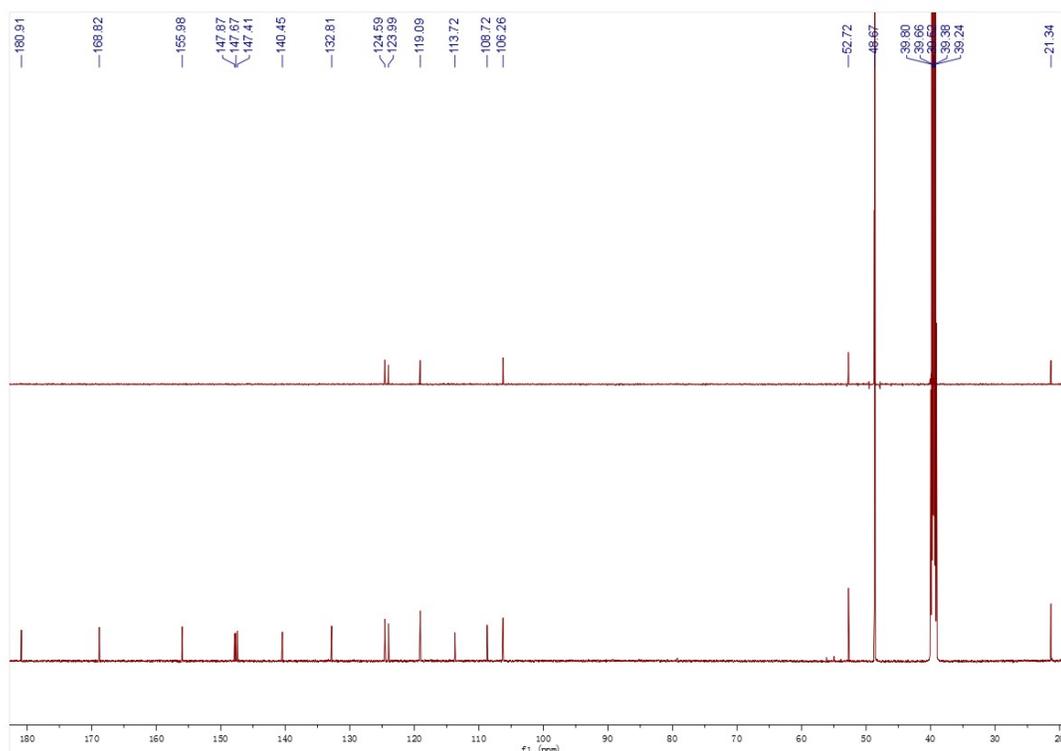
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用户名		进样体积	1	进样位置	
样品类型	Sample	原理校正状态	丢失所有离子	数据文件名	BSH8-75+.d
采集方法	wss-isocratic elution-Positive.m	注释		采集时间	2018/2/2 17:29:12



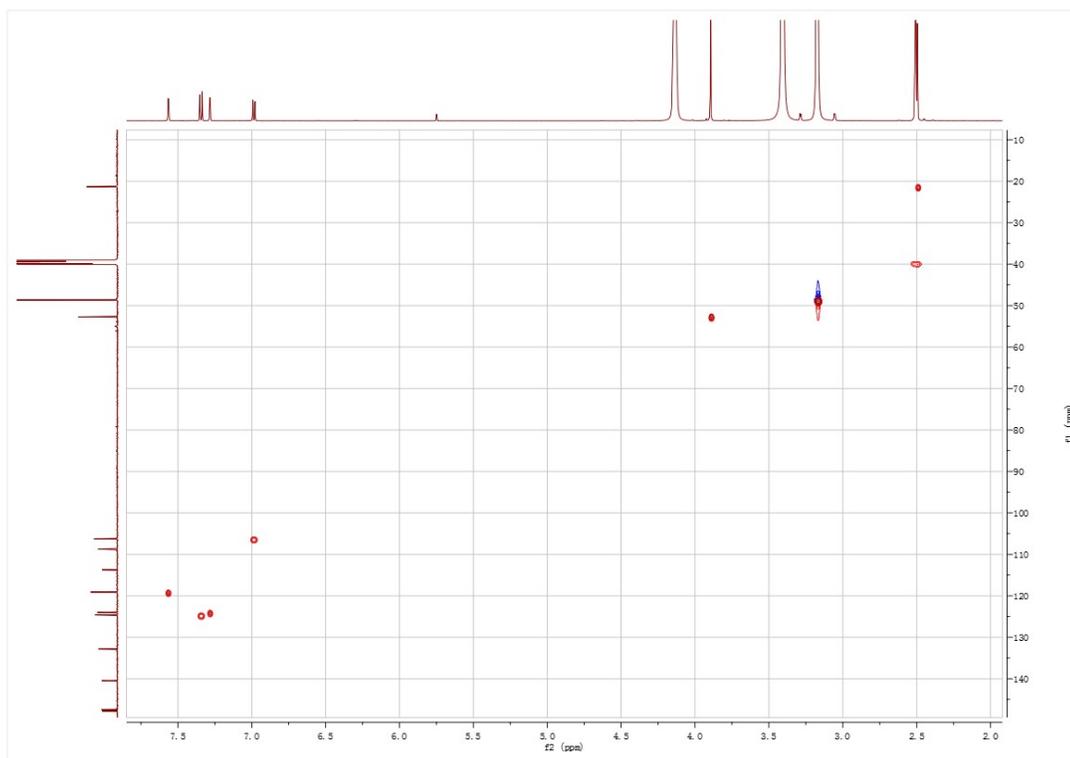
**Figure S17.** The  $^1\text{H-NMR}$  spectrum of arthone D (**4**) in  $\text{DMSO-}d_6$



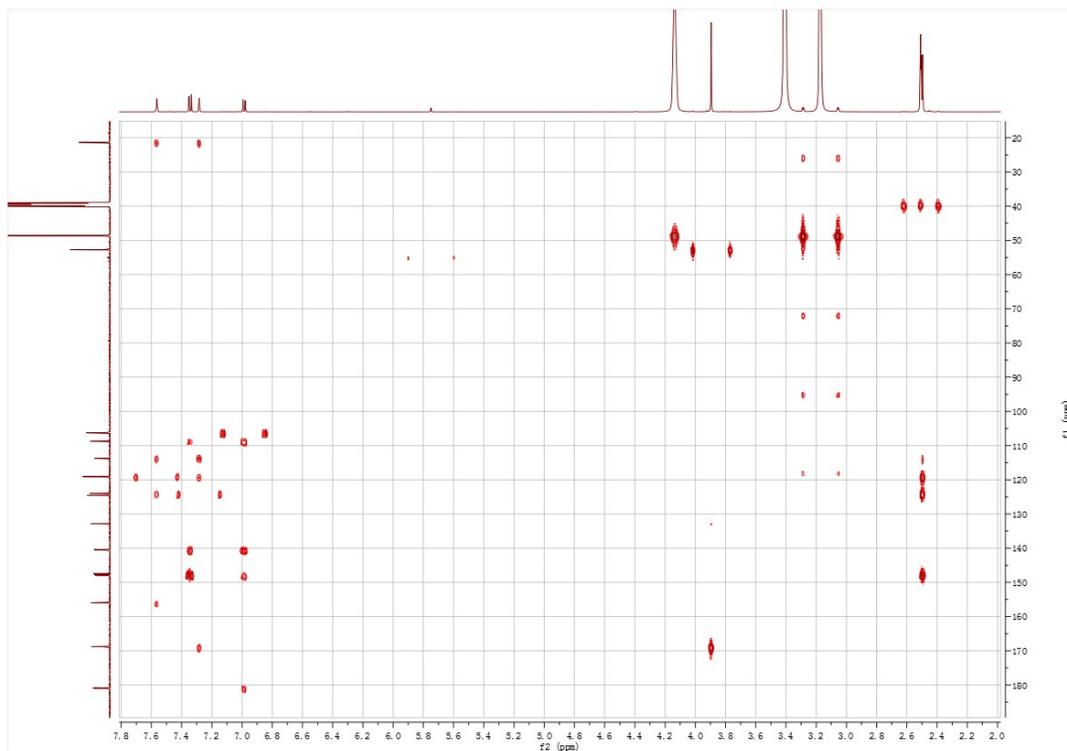
**Figure S18.** The  $^{13}\text{C-NMR}$  spectrum of arthone D (**4**) in  $\text{DMSO-}d_6$



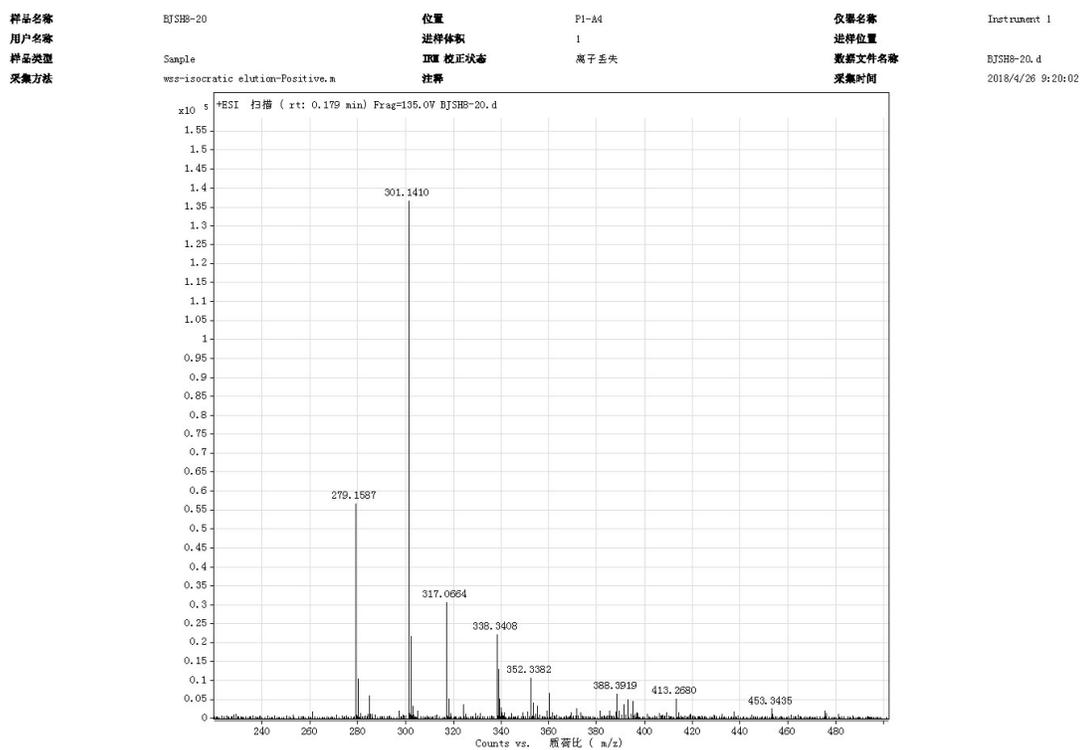
**Figure S19.** The HSQC spectrum of arthone D (**4**) in DMSO-*d*<sub>6</sub>



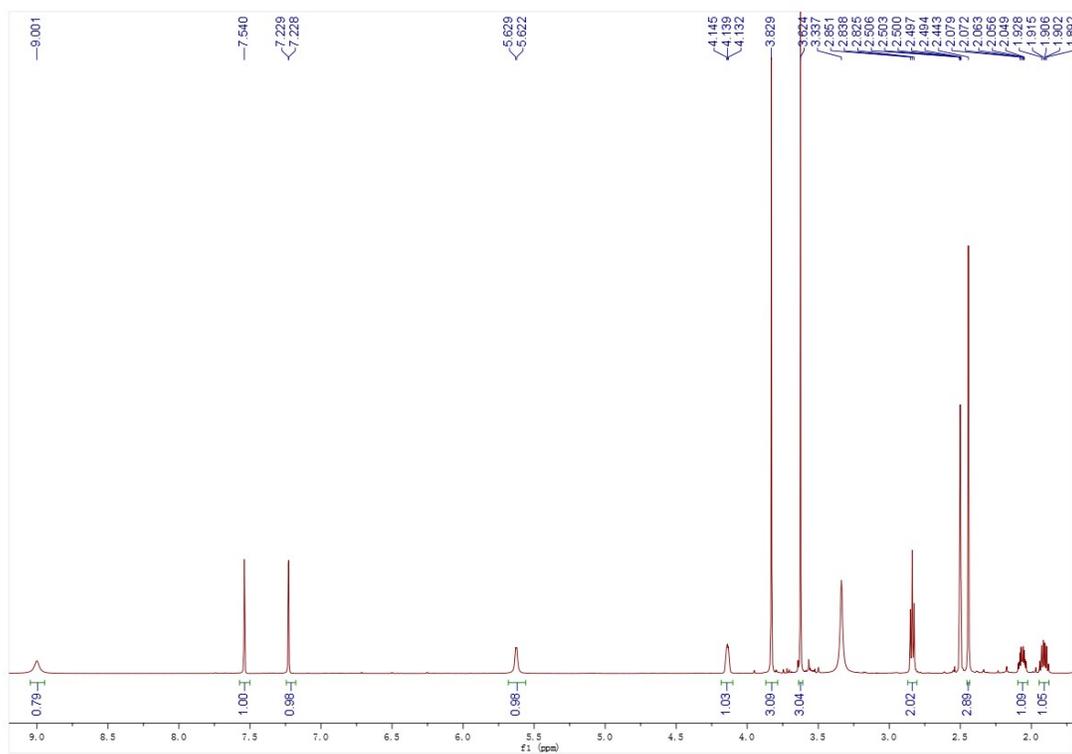
**Figure S20.** The HMBC spectrum of arthone D (**4**) in DMSO-*d*<sub>6</sub>



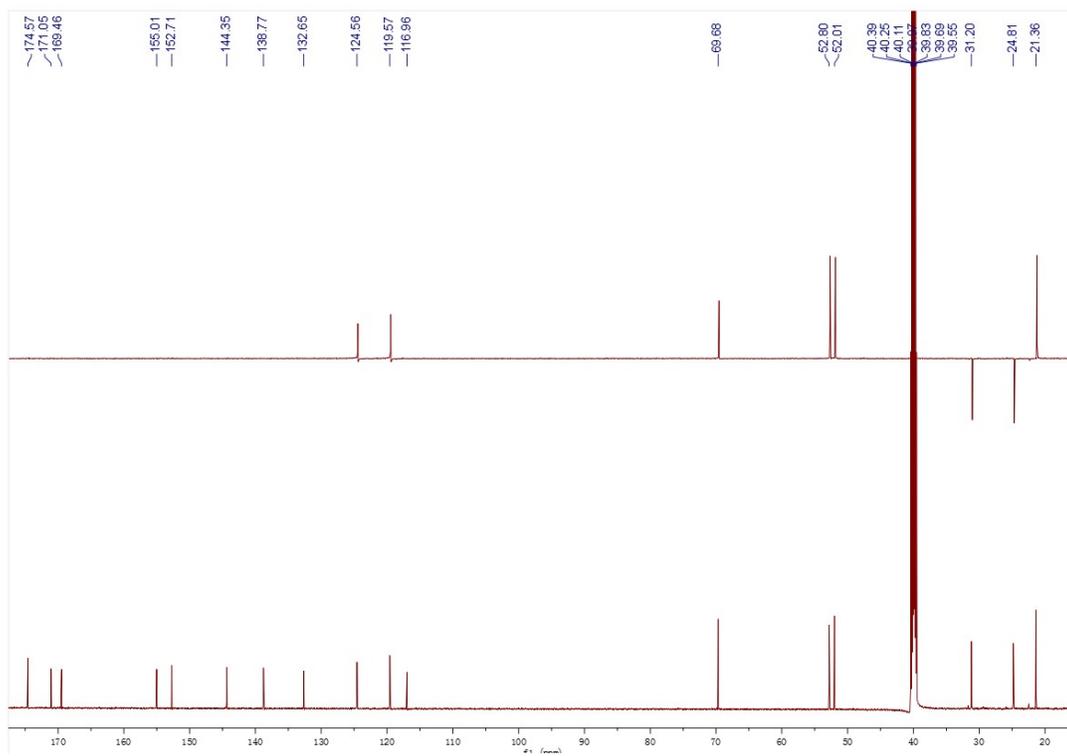
**Figure S21.** The (+)-HR-ESIMS spectrum of arthone D (4)



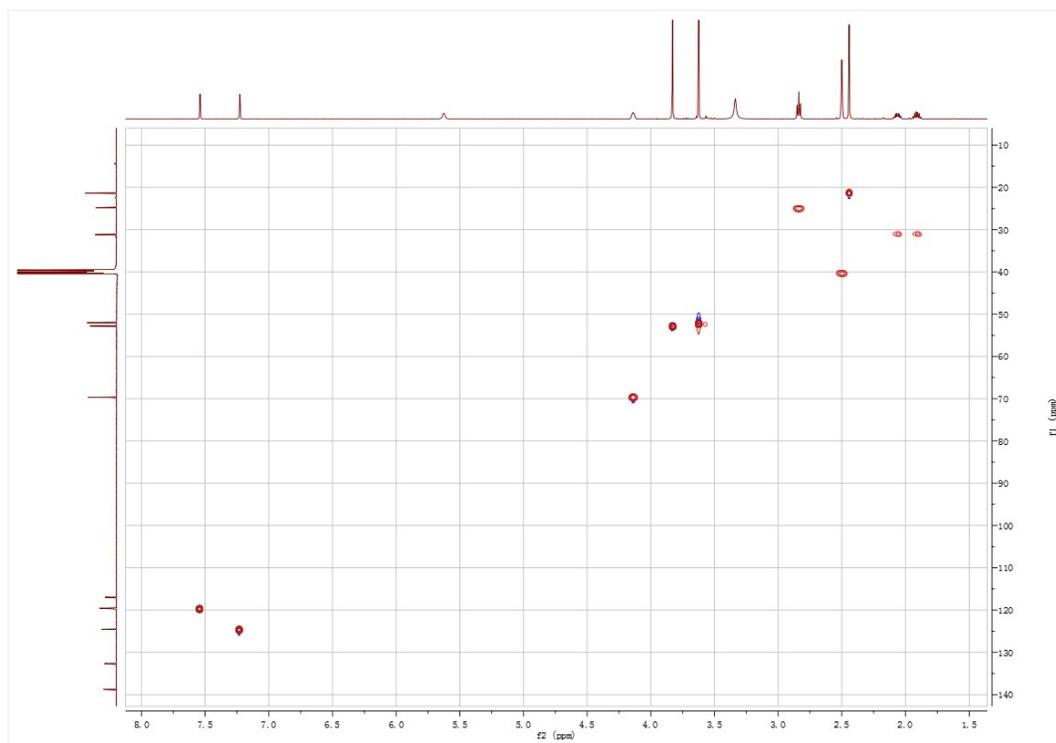
**Figure S22.** The  $^1\text{H-NMR}$  spectrum of arthone E (5) in  $\text{DMSO-}d_6$



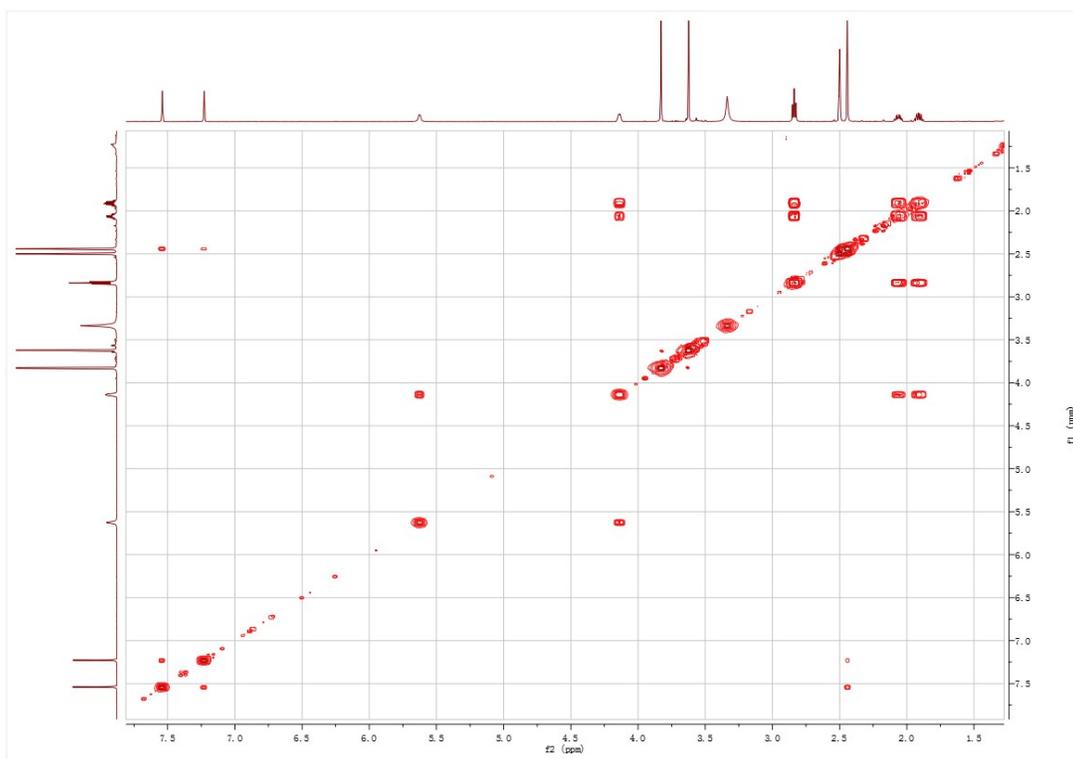
**Figure S23.** The  $^{13}\text{C}$ -NMR spectrum of arthone E (**5**) in  $\text{DMSO-}d_6$



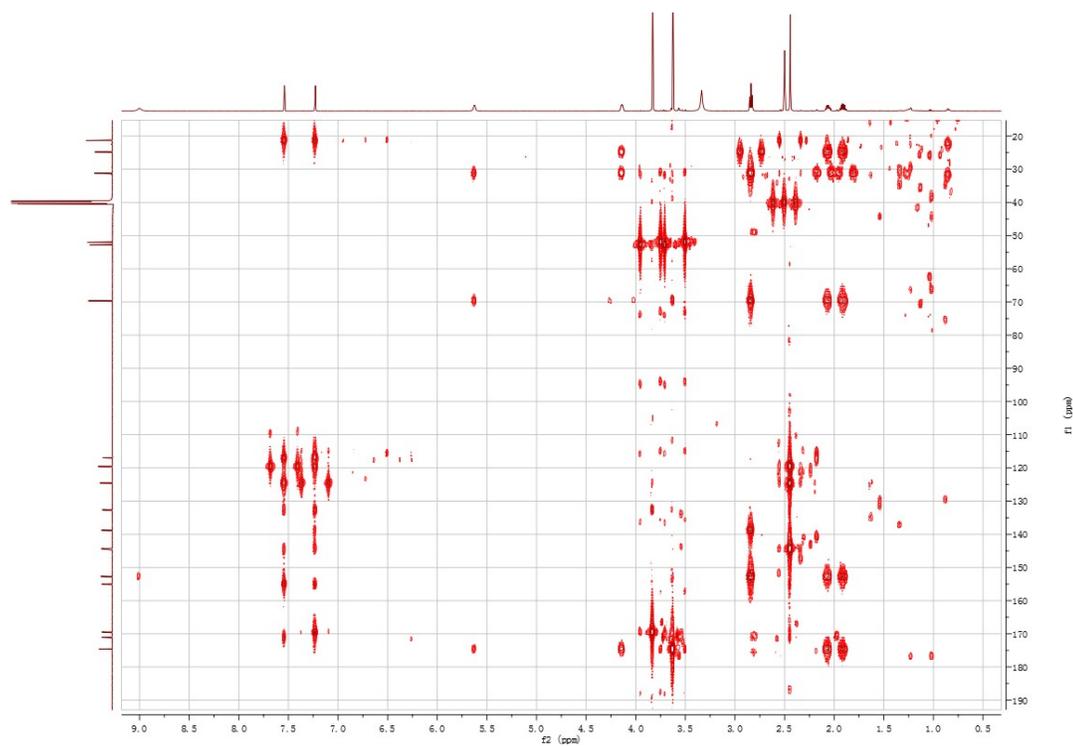
**Figure S24.** The HSQC spectrum of arthone E (**5**) in  $\text{DMSO-}d_6$



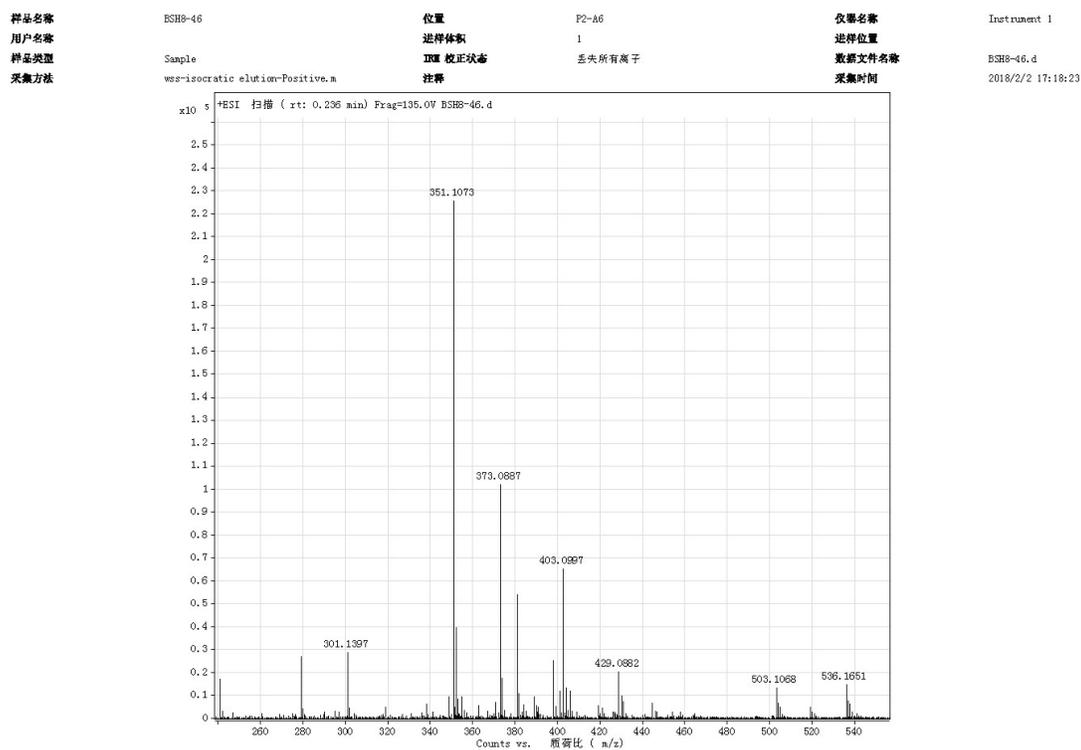
**Figure S25.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of arthone E (**5**) in  $\text{DMSO-}d_6$



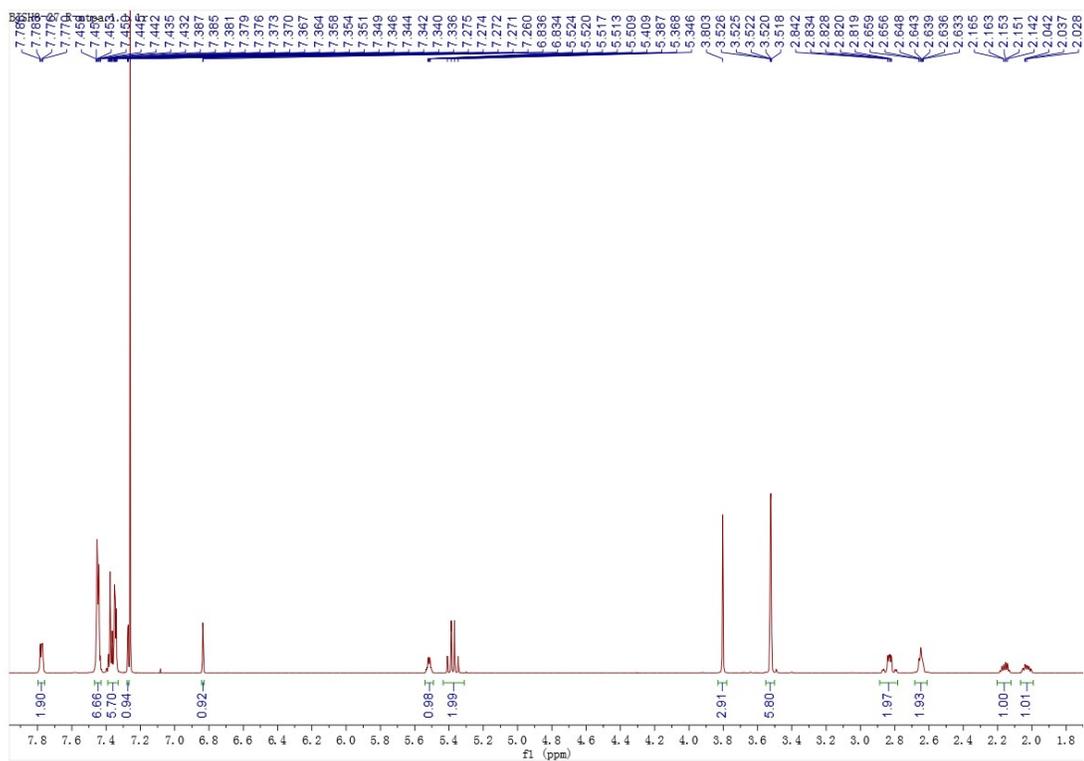
**Figure S26.** The HMBC spectrum of arthone E (**5**) in  $\text{DMSO-}d_6$



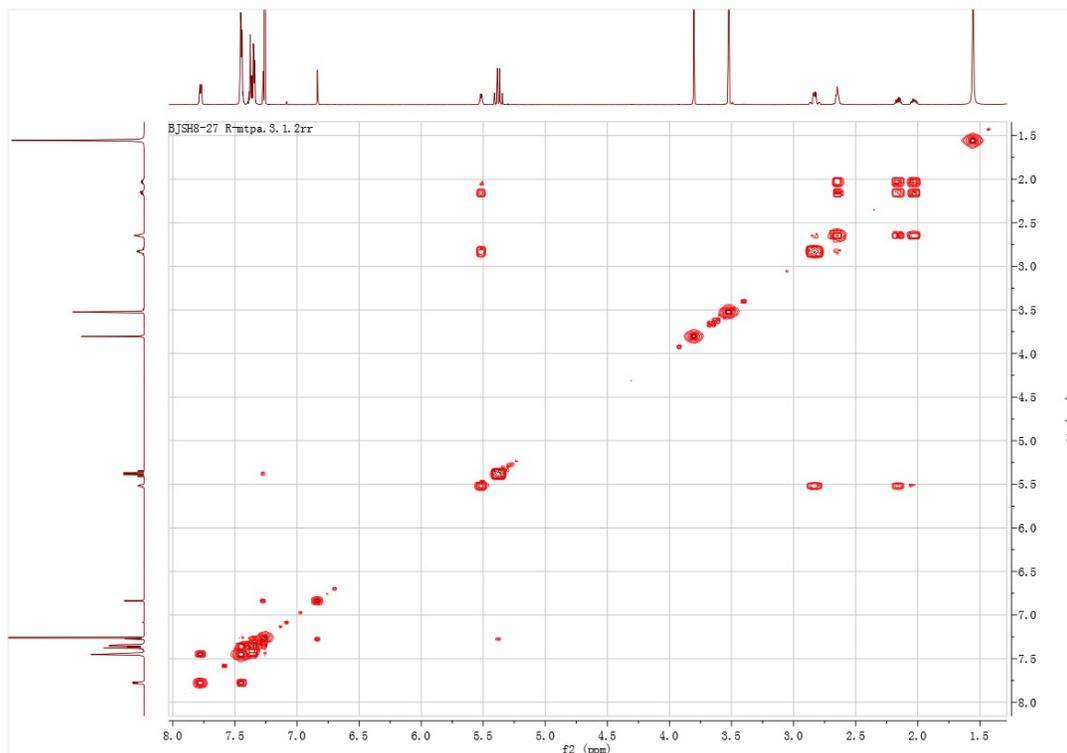
**Figure S27.** The (+)-HR-ESIMS spectrum of arthone E (**5**)



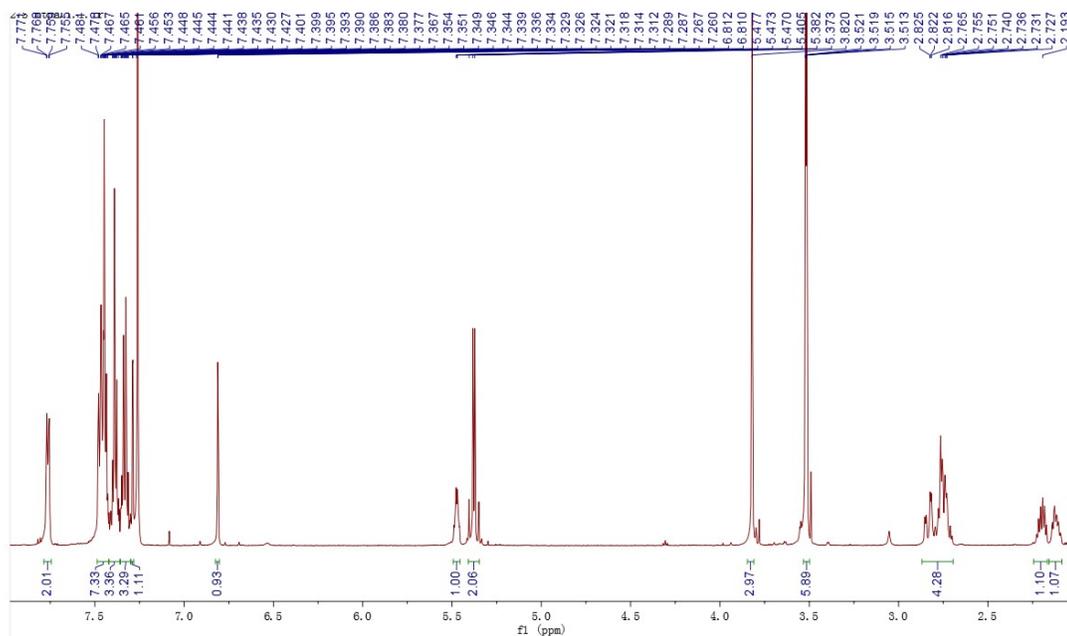
**Figure S28.** The <sup>1</sup>H-NMR spectrum of (*R*)-MTPA ester of arthone B (**2**) in CDCl<sub>3</sub>

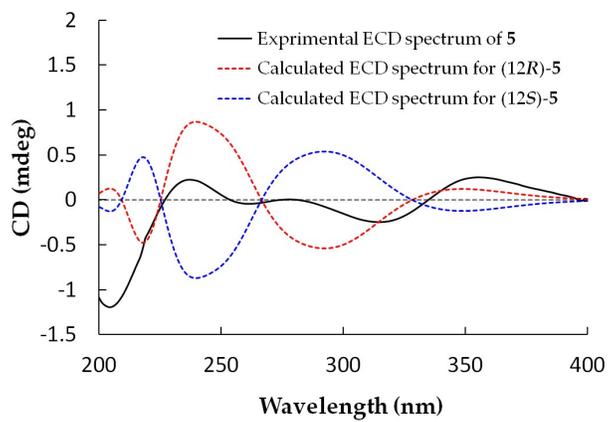


**Figure S29.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of (*R*)-MTPA ester of arthone B (**2**) in  $\text{CDCl}_3$



**Figure S30.** The  $^1\text{H}$ -NMR spectrum of (*S*)-MTPA ester of arthone B (**2**) in  $\text{CDCl}_3$





**Figure S31.** Experimental and theoretical ECD spectra for **5**