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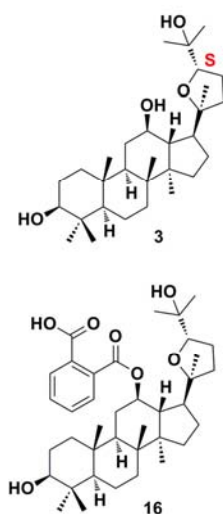
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Graphic abstract

Synthesis and biological evaluation of novel ocotillol-type triterpenoid derivatives as antibacterial agents

Zhiwen Zhou^{a, #}, Cong Ma^{b, #}, Hengyuan Zhang^{a, #}, Yi Bi^c, Xia Chen^a, Hua Tian^a, Xiaoni Xie^a, Qingguo Meng^{c, *}, Peter John Lewis^{b, *}, Jinyi Xu^{a, *}



Compounds	MIC against <i>S. aureus</i> RN4220
3	8 µg/mL
16	4 µg/mL

Compounds	MIC (µg/mL)	
	CA-MRSA USA 300	<i>B. subtilis</i> 168
Kanamycin	1	0.25
3 + Kanamycin	0.125	0.2
16 + Kanamycin	0.0078	< 0.0020
Chloramphenicol	4	2
3 + Chloramphenicol	4	2
16 + Chloramphenicol	0.016	< 0.0078

Compounds **3** and **16** combined with kanamycin and chloramphenicol showed strong synergistic inhibitory effects at their sub-MIC concentrations against *S. aureus* USA 300 and *B. subtilis* 168.

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