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Graphic abstract

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

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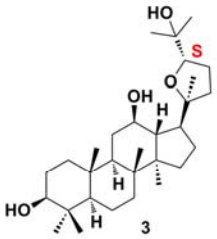

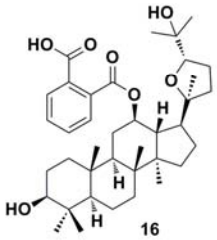

Compounds	MIC against *S. aureus* RN4220
3	8 μg/mL
16	4 μg/mL

Copounds	MIC (μg/mL)	
	CA-MRSA USA 300	*B. subtilis* 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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