Supporting Information

for

Two new 2-alkylquinolones, inhibitory to the fish skin ulcer pathogen *Tenacibaculum maritimum*, produced by a rhizobacterium of the genus *Burkholderia* sp.

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¹H and ¹³C NMR, COSY, HSQC, and HMBC spectra for compounds 1 and 3

*(E)-2-(hept-2-en-1-yl)quinolin-4(1H)-one (1)*

- ¹H NMR spectrum (CD3OD, 500 MHz)        S2
- ¹³C NMR spectrum (CD3OD, 125 MHz)        S3
- COSY spectrum (CD3OD, 500 MHz)        S4
- HSQC spectrum (CD3OD, 500 MHz)        S5
- HMBC spectrum (CD3OD, 500 MHz)        S6

*(E)-2-(non-2-en-1-yl)quinolin-4(1H)-one (3)*

- ¹H NMR spectrum (CDCl3, 500 MHz)        S7
- ¹³C NMR spectrum (CDCl3, 125 MHz)        S8
- COSY spectrum (CDCl3, 500 MHz)        S9
- HSQC spectrum (CDCl3, 500 MHz)        S10
- HMBC spectrum (CDCl3, 500 MHz)        S11
- ¹H NMR spectral comparison with 2-heptylquinolin-4(1H)-one (2) S12
- NOESY spectrum (CDCl3, 500 MHz)        S13
Figure S1: $^1$H NMR spectrum of (E)-2-(hept-2-en-1-yl)quinolin-4(1H)-one (1, 500 MHz, CH$_3$OD)
Figure S2: $^{13}$C NMR spectrum of (E)-2-(hept-2-en-1-yl)quinolin-4(1H)-one (1, 125 MHz, CH$_3$OD)
Figure S3: COSY spectrum of (E)-2-(hept-2-en-1-yl)quinolin-4(1H)-one (1, 500 MHz, CH$_3$OD)
Figure S4: HSQC spectrum of (E)-2-(hept-2-en-1-yl)quinolin-4(1H)-one (1, 500 MHz, CH₃OD)
Figure S5: HMBC spectrum of (E)-2-(hept-2-en-1-yl)quinolin-4(1H)-one (1, 500 MHz, CH$_3$OD)
Figure S6: $^1$H NMR spectrum of (E)-2-(non-2-en-1-yl)quinolin-4(1H)-one (3, 500 MHz, CDCl$_3$)
Figure S7: $^{13}$C NMR spectrum of (E)-2-(non-2-en-1-yl)quinolin-4(1H)-one (3, 125 MHz, CDCl$_3$)
Figure S8: COSY spectrum of (E)-2-(non-2-en-1-yl)quinolin-4(1H)-one (3, 500 MHz, CDCl₃)
Figure S9: HSQC spectrum of (E)-2-(non-2-en-1-yl)quinolin-4(1H)-one (3, 500 MHz, CDCl₃)
Figure S10: HMBC spectrum of (E)-2-(non-2-en-1-yl)quinolin-4(1H)-one (3, 500 MHz, CDCl₃)
**Figure S11**: $^1$H NMR spectral comparison between (E)-2-(non-2-en-1-yl)quinolin-4(1H)-one (3) and heptylquinolin-4(1H)-one (2, 500 MHz, CDCl$_3$)
Figure S12: NOESY spectrum of (E)-2-(non-2-en-1-yl)quinolin-4(1H)-one (3, 500 MHz, CDCl₃, mixing time= 550 ms)