

Supporting Information

Identification and enhancing production of a novel macrolide compound in engineered *Streptomyces peucetius*

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List of figures

Fig. S1 (a) The FT-IR spectrum of peucemycin 3

Fig. S1 (b) Fragment analysis of peucemycin 4

Fig. S2 (a) ^1H NMR (700 MHz, DMSO-*d*6) spectrum of peucemycin 5

Fig. S2 (b) ^{13}C NMR (176 MHz, DMSO-*d*6) spectrum of peucemycin..... 6

Fig. S2 (c) ^1H - ^1H COSY (700 MHz, DMSO-*d*6) spectrum of peucemycin 7

Fig. S2 (d) ^1H - ^1H ROESY (700 MHz, DMSO-*d*6) spectrum of peucemycin..... 8

Fig. S2 (e) HSQC (700 MHz, DMSO-*d*6) spectrum of peucemycin 9

Fig. S2 (f) HMBC (700 MHz, DMSO-*d*6) spectrum of peucemycin..... 10

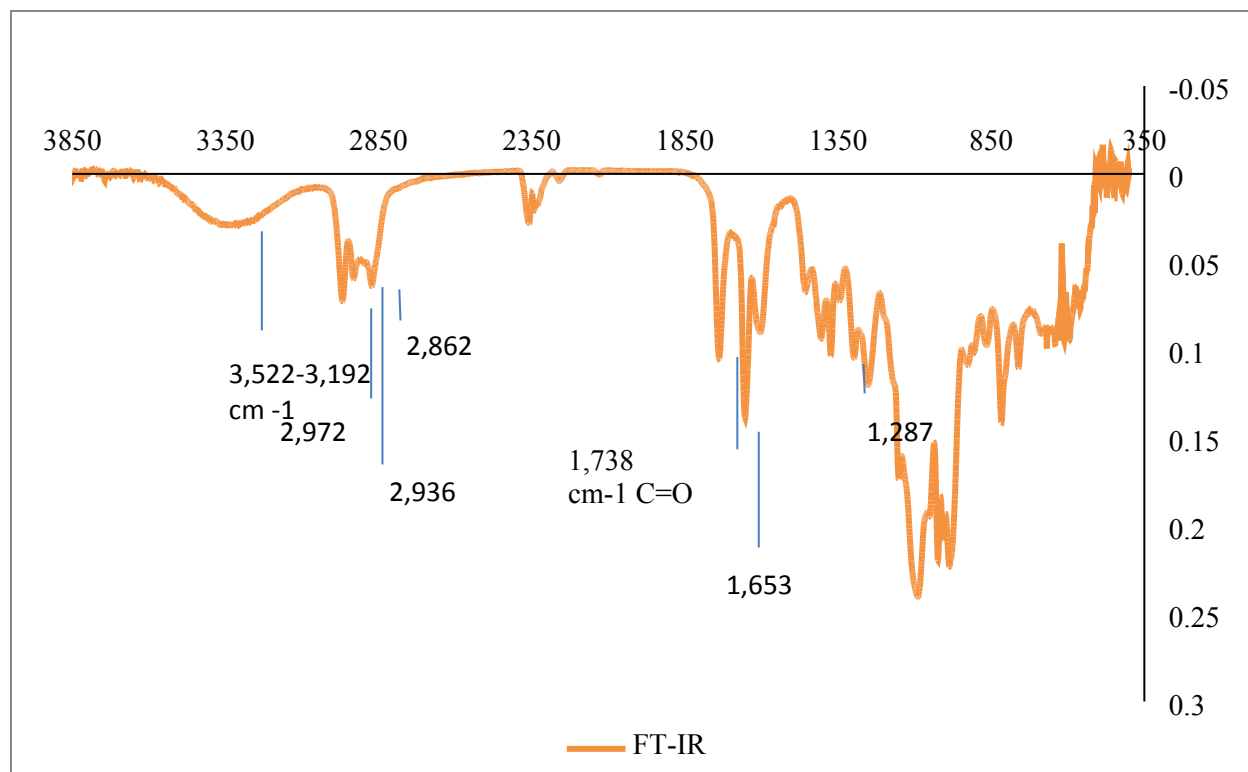
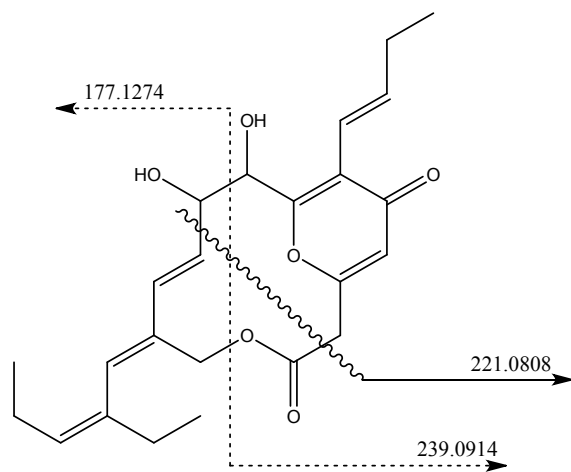
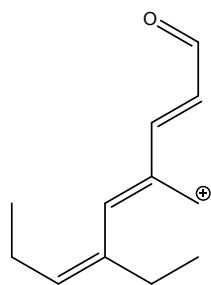


Fig. S1 (a) The FT-IR spectrum of peucemycin

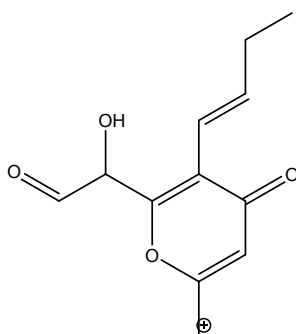


Chemical Formula: $C_{12}H_{17}O^+$
Exact Mass: 177.1274



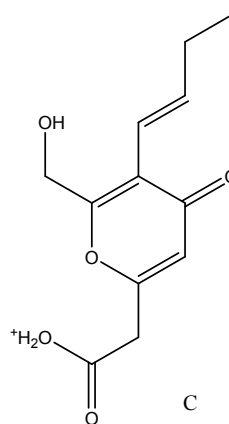
A

Chemical Formula: $C_{12}H_{13}O_4^+$
Exact Mass: 221.0808



B

Chemical Formula: $C_{12}H_{15}O_5^+$
Exact Mass: 239.0914



C

Fig. S1 (b) Fragment analysis of peucemycin

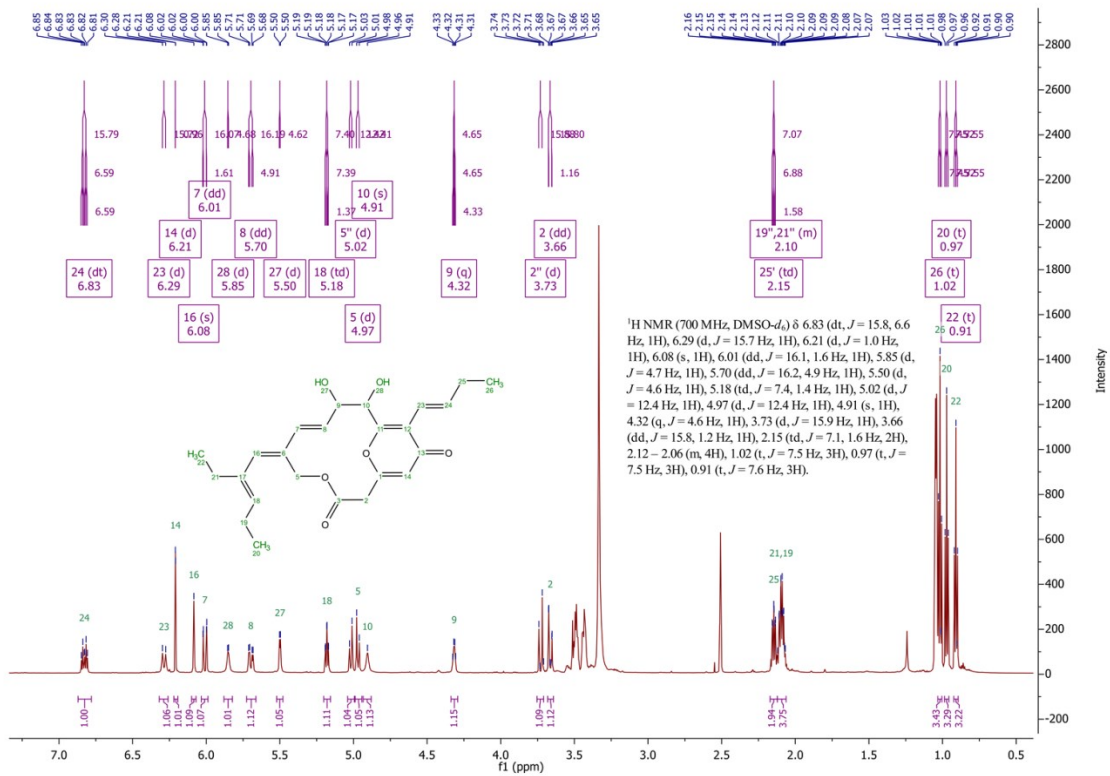


Fig. S2 (a) ¹H NMR (700 MHz, DMSO-*d*₆) spectrum of peucemycin

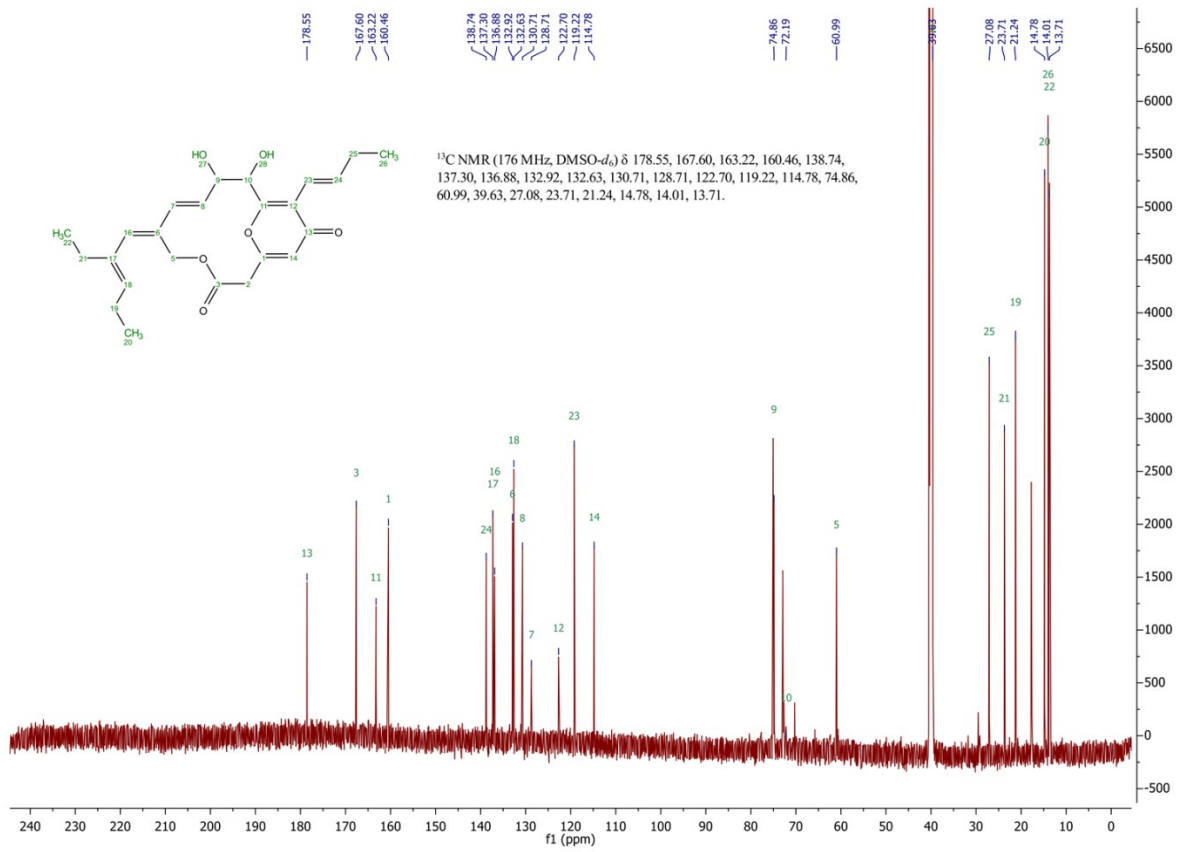


Fig. S2 (b) ¹³C NMR (176 MHz, DMSO-*d*₆) spectrum of peucemycin

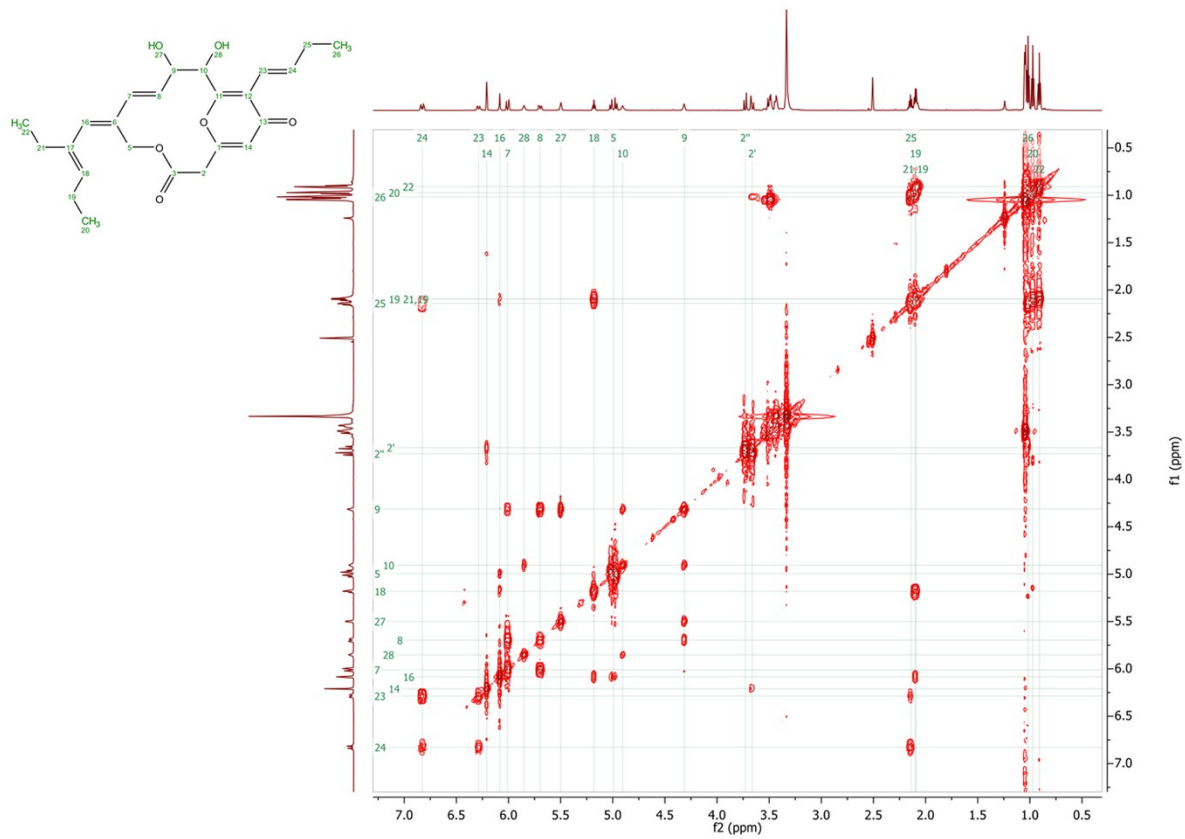


Fig. S2 (c) ^1H - ^1H COSY (700 MHz, $\text{DMSO-}d_6$) spectrum of peucemycin

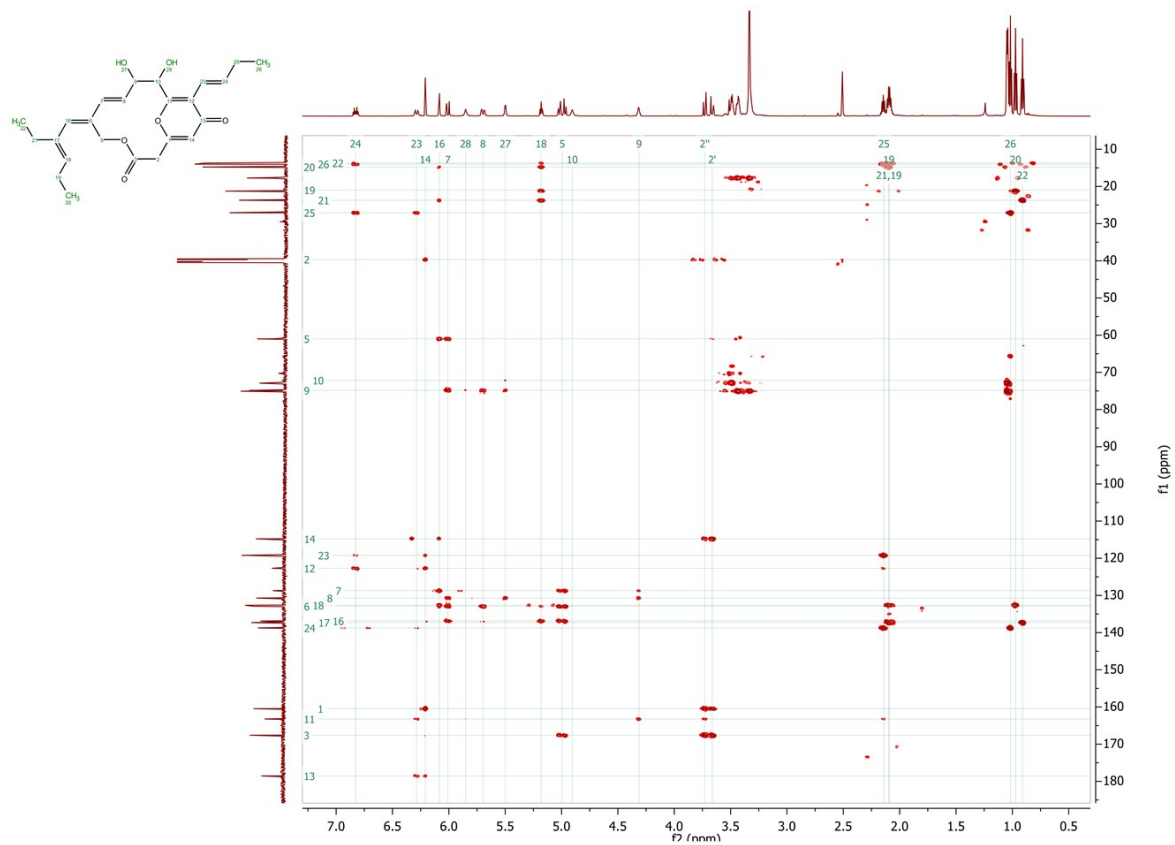


Fig. S2 (f) HMBC (700 MHz, DMSO-*d*₆) spectrum of peucemycin