Fig. S1. Structure analysis of Fus901 by LC/MS/MS.

(A) LC/MS total ion chromatogram of Fus901 with MS/MS data at a retention time of 8.23 min. (B) LC-MS total ion chromatogram of fusaricidin and ring-opened fusaricidin. (C) MS/MS data of fusaricidin (m/z 883 and 897), ring-opened fusaricidin by esterase (m/z 915), and by NaOH (m/z 915).
Fig. S2. Structural comparison between Fus901 and fusaricidin.

(A) fusaricidin B. (B) Fus901. Dot circles represent the structural difference between fusaricidin and Fus901.
**Fig. S3.** The chlorophyll-\(a\) concentration of *M. aeruginosa* KW when Fus901 was added at 0 d (initial treatment; ▼) and 2 d (intermediate treatment; ○) of the growth phase during the 5 days of cultivation.

Error bars indicate standard deviation (SD); * significantly different (p<0.05) from control.
**Fig. S4.** Growth inhibition activity of Fus901 at various concentrations (0.625, 1.25, 2.5, 5.0 and 10 mg/ml) on the *M. luteus*.