Table of contents

Figure 1-18. RP HPLC and MALDI-TOF MS characterization of analogs 1-18.	S2-19
Figure 19. RP HPLC spectra obtained in the serum stability study of 6	S20
Figure 20. MALDI-TOF spectra of fractions obtained in the serum stability study of 6	S21
Figure 21. RP HPLC spectra obtained in stability study of 6 in EMEM media	S22
Figure 22. MALDI-TOF spectra of fractions obtained in the stability study of 6 in EMEM	S23
Figure 23. Stability of 6 in EMEM media	S23
Table 1. Hemolytic activity	S24



Figure 1. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 1.



Figure 2. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 2.



Figure 4. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 3.



Figure 4. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 4.



Figure 5. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 5.



Figure 6. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 6.



Figure 7. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 7.



Figure 8. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 8.



Figure 9. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 9.



Figure 10. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog **10**.



Figure 11. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 11.



Figure 12. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog **12**.



Figure 13. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 13.



Figure 14. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 14.



Figure 15. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 15.



Figure 16. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 16.



Figure 17. RP HPLC trace (up) and MALDI-TOF spectrum (down) of analog 17.



Figure 18. RP HPLC trace (up) and MALDI-TOF spectrum (down) of control lipopeptide 18.



Figure 19. RP HPLC trace of analog **6** in 50% human serum at time 0 (up) and after 24 h incubation at 37°C (down). Peak at R_t =15.8 corresponds to unchanged **6**. ([•]) Marks approximate elution time (R_t = 15-15.2 min.) of the major degradation product.



Figure 20. MALDI-TOF MS analysis of RP HPLC fractions obtained after 24h incubation of **6** in 50% human serum. Up: fraction collected at R_t =15.7 min., corresponding to unchanged **6**, down: fraction collected at R_t =15-15.2 min., indicating ester bond hydrolysis in **6** to generate the major degradation product (m/z and RP HPLC R_t are almost identical, within experimental error, to control linear lipopeptide **18**).



Figure 21. RP HPLC trace of analog **6** in EMEM medium at time 0 (up) and after 24 h incubation at 37°C (down). Peak at R_{t} =15.7 corresponds to unchanged **6**. ([•]) Marks elution time (R_{t} =15.1 min.) of the major degradation product.



Figure 22. MALDI-TOF MS analysis of RP HPLC fractions obtained after 24h incubation of **6** in EMEM medium. Up: fraction at 15.7 min, down: fraction at 15.1 min.



Figure 23. Serum stability of fusaricidin analog 6 in EMEM medium containing 10% FBS.

Peptide concentration (μg/mL)	Analog 2 4 5 6 8 11 14 15 16 18									
256	_ ^b	-	-	109.2	-	96.8	14.9	-	52.5	-
128	-	-	-	88.7	-	95.2	6.3	-	25.3	-
64	nd ^c	nd	nd	43.5	29.2	63.6	3.9	1.1	1.6	8.1
32	nd	nd	nd	1.4	1.2	27.1	nd	nd	nd	8.3
16	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
8	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

Table 1. Hemolytic activity of selected fusaricidin A /LI-F04a analogs^a.

^a Expressed as % of hemolysis caused by Triton X-100; ^b not tested; ^c nd=no hemolysis detected.