**Supporting Information**

Synthesis and physicochemical evaluation of fluorinated lipopeptide precursors of ligands for microbubble targeting

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**Figure S1:** Mass Spectrometry data of (SG)5-KSS-K(C2H4-C6F13)2 (**1**). Exact mass of the (SG)5-KSS-K(C2H4-C6F13)2 [M+H]+ was calculated 1916.5511 and found 1916.5509.



**Figure S2:** RP-HPLC chromatogram of (SG)5-KSS-K(C2H4-C6F13)2 (**1**). HPLC conditions: the column was a COSMOSIL 5C18-AR-II 4.6 mm × 250 mm, flow rate was 0.5 mL/min, UV excitation at 220 nm, mobile phase systems were CH3CN : H2O = 80:20.



**Figure S3:** Mass Spectrometry data of (SG)5-KSS-K(C2H4-C7F15)2 (**2**). Exact mass of the (SG)5-KSS-K(C2H4-C7F15)2 [M+H]+ was calculated 2016.5447 and found 2016.5448.



**Figure S4:** RP-HPLC chromatogram of (SG)5-KSS-K(C2H4-C7F15)2 (**2**). HPLC conditions: the column was a COSMOSIL 5C18-AR-II 4.6 mm × 250 mm, flow rate was 0.5 mL/min, UV excitation at 220 nm, mobile phase systems were CH3CN : H2O = 80:20.



**Figure S5:** Mass Spectrometry data of (SG)5-KSS-K(C2H4-C8F17)2 (**3**). Exact mass of the (SG)5-KSS-K(C2H4-C8F17)2 [M+H]+ was calculated 2116.5383 and found 2116.5381.



**Figure S6:** RP-HPLC chromatogram of (SG)5-KSS-K(C2H4-C8F17)2 (**3**). HPLC conditions: the column was a COSMOSIL 5C18-AR-II 4.6 mm × 250 mm, flow rate was 0.5 mL/min, UV excitation at 220 nm, mobile phase systems were CH3CN : H2O = 80:20.



**Figure S7:** Mass Spectrometry data of (SG)5-KSS-K(C10H21)2 (**4**). Exact mass of the (SG)5-KSS-K(C10H21)2 [M+H]+ was calculated 1504.8586 and found 1504.8585.



**Figure S8:** RP-HPLC chromatogram of (SG)5-KSS-K(C10H21)2 (**4**). HPLC conditions: the column was a COSMOSIL 5C18-AR-II 4.6 mm × 250 mm, flow rate was 0.5 mL/min, UV excitation at 220 nm, mobile phase systems were CH3CN : H2O = 80:20.