Figure S1:

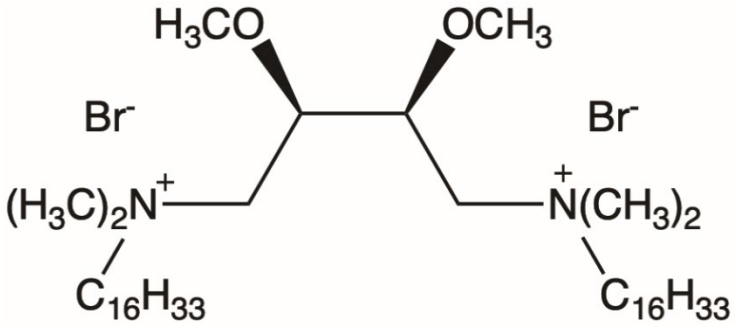


Figure S1: Gemini structure.

Figure S2:

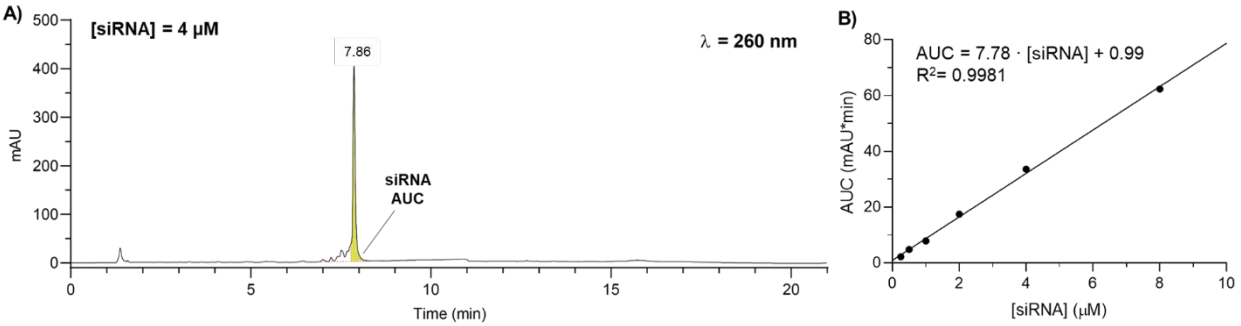


Figure S2: A) HPLC trace of free siRNA at 4 µM concentration**. B)** Calibration curve correlating siRNA concentration and the measured area under the curve (AUC) of each HPLC analysis.

Figure S3:

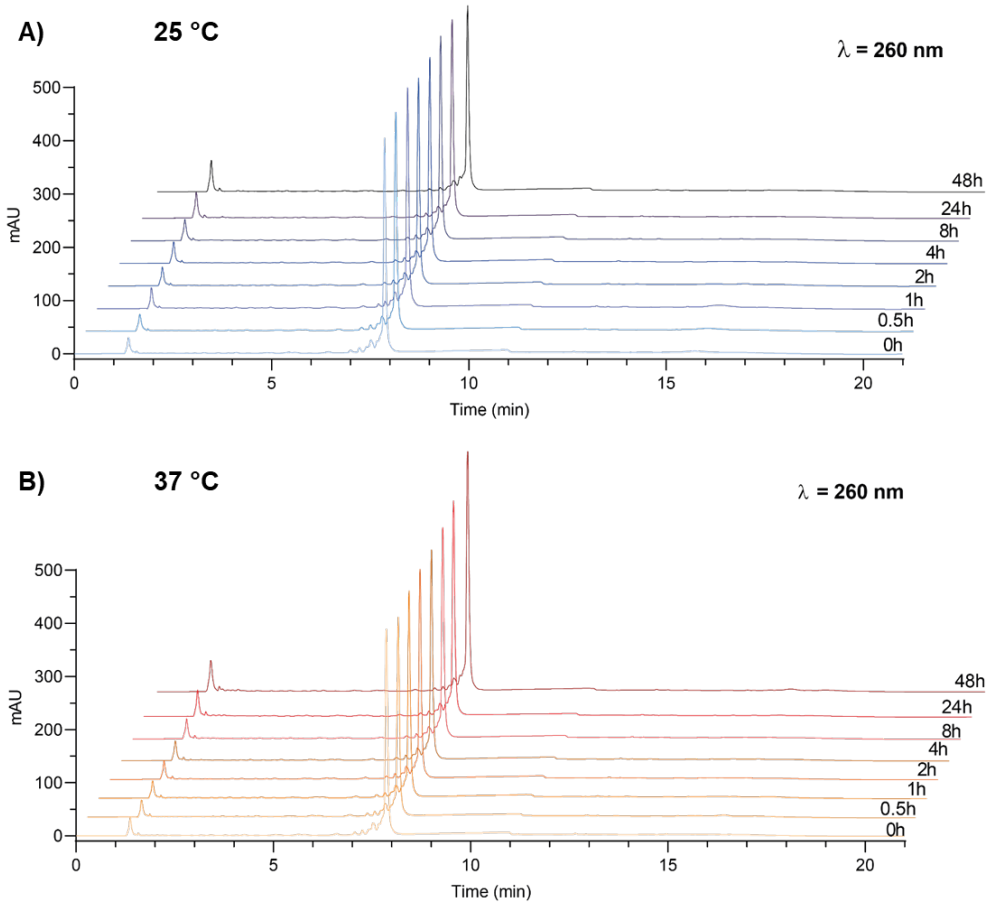


Figure S3: A) Evaluation of the stability of free siRNA (4 µM) by HPLC after 0.5-48 h of incubation at 25 °C. **B)** Evaluation of the stability of free siRNA (4 µM) by HPLC after 0.5-48 h of incubation at 37 °C.

Figure S4.

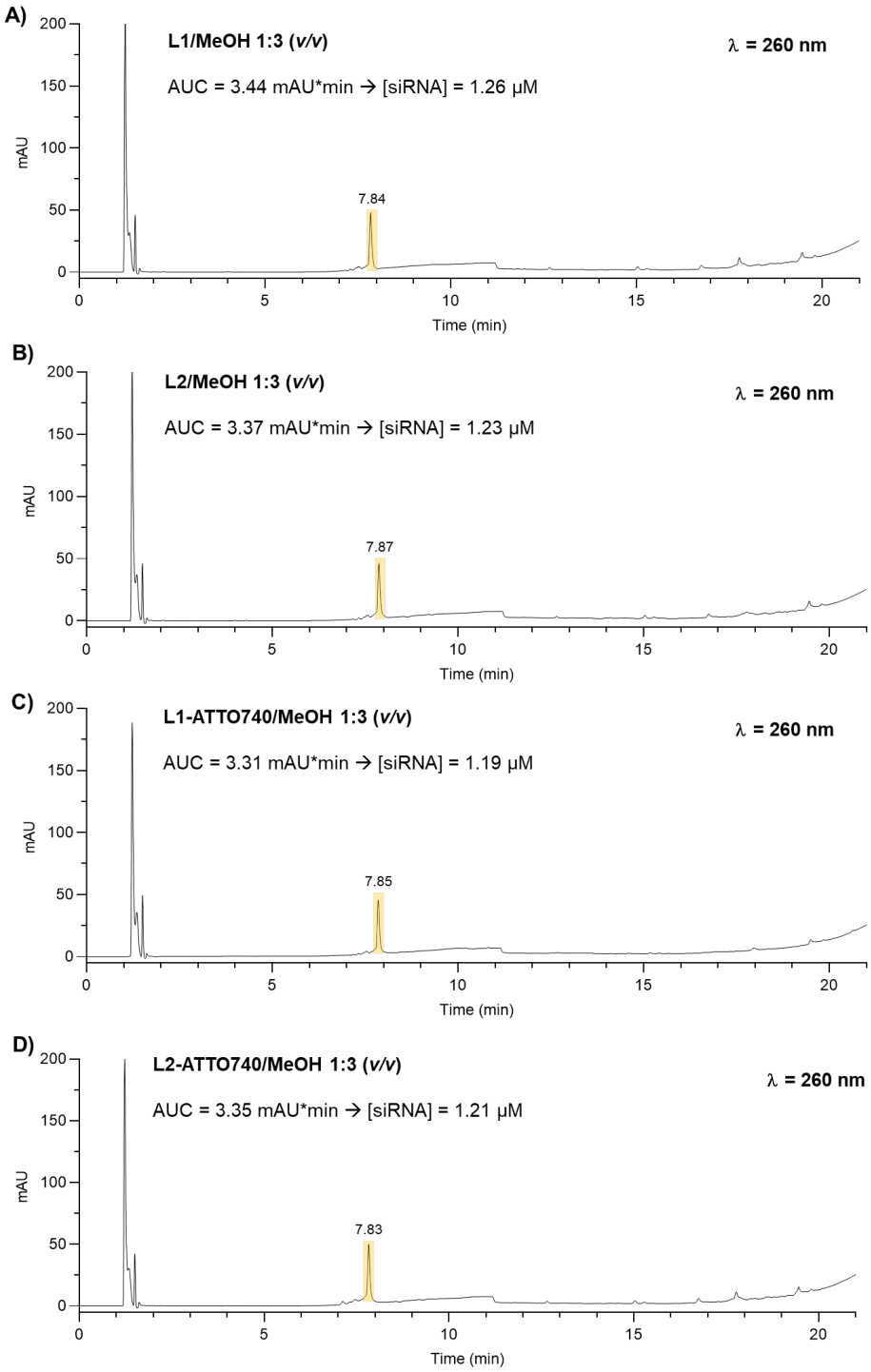


Figure S4*:* **A**) HPLC analysis of the lipoplex preparation (protocol *F*) following dilution with methanol. **B**) HPLC analysis of the F9-PEG-lipid-lipoplex preparation (protocol *I*) following dilution with **C)** HPLC analysis of the ATTO740-labelled lipoplex preparation (protocol *F*) following dilution with methanol. **D)** HPLC analysis of the ATTO740-labelled F9-PEG-lipid-lipoplex preparation (protocol *I*) following dilution with methanol.