

Supporting Information

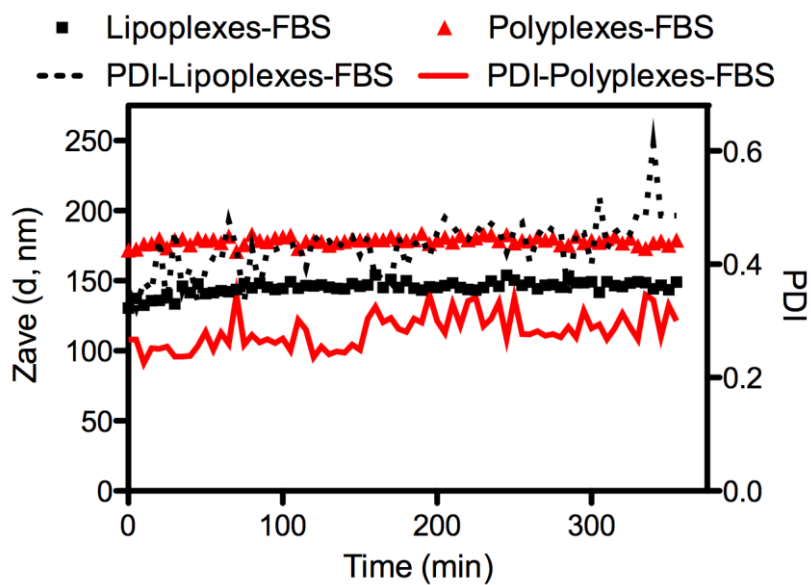
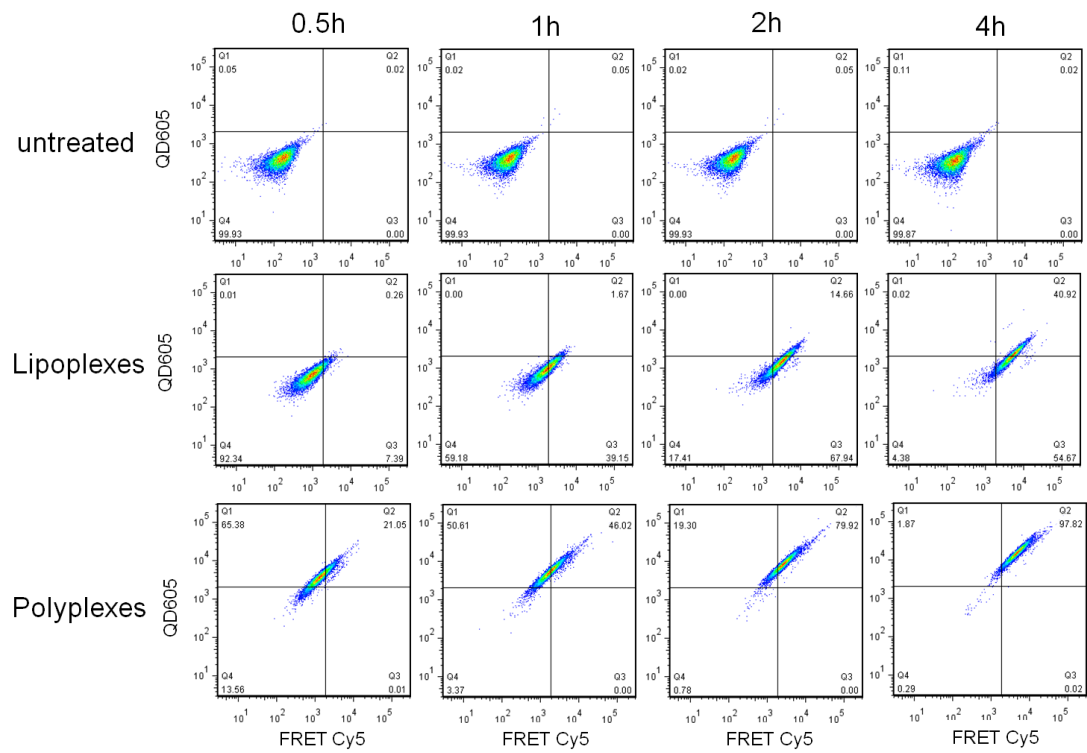
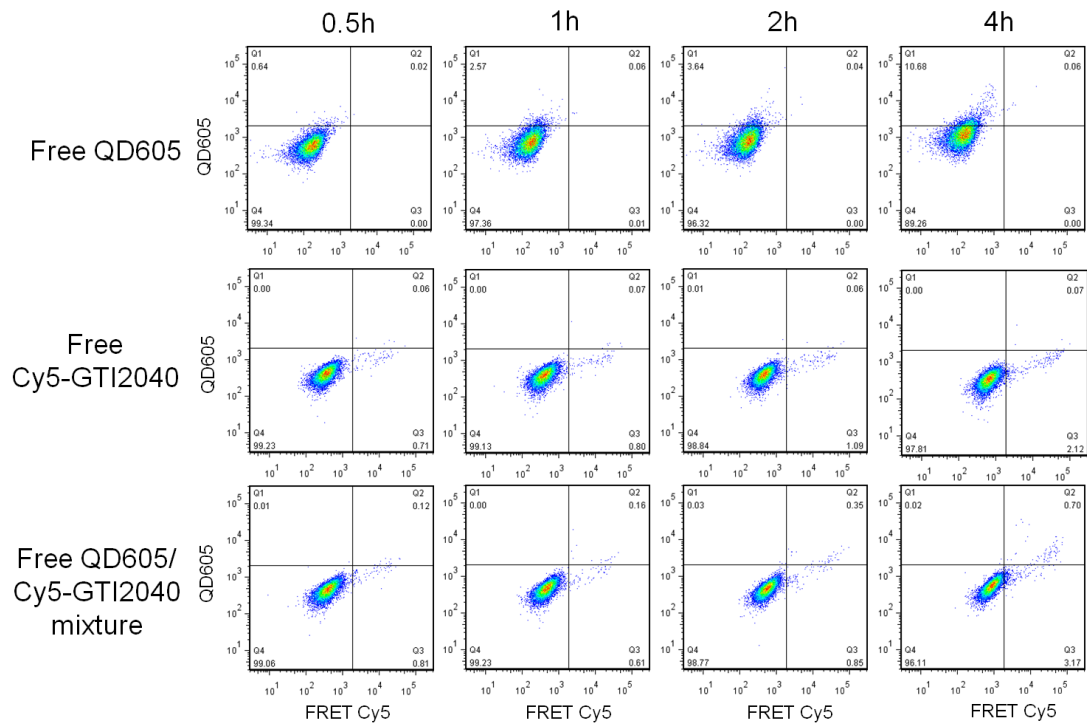


Figure 1s Sizes of lipoplexes and polyplexes in 10% FBS in PBS over a 6-hour period. Both lipoplexes and polyplexes exhibited good stability.

(a)



(b)



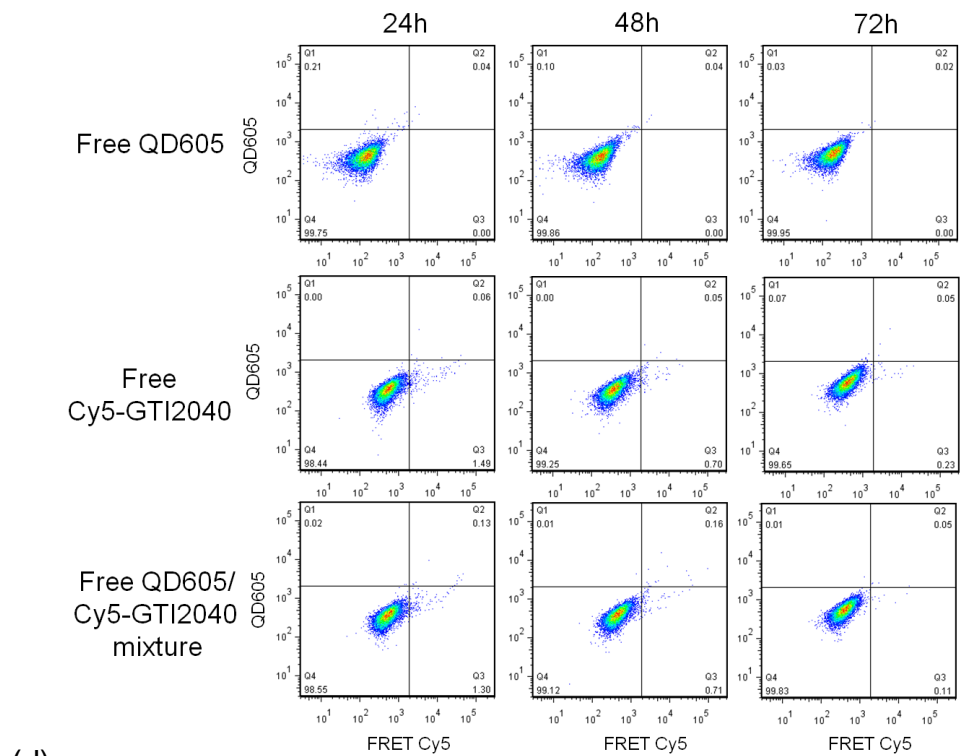
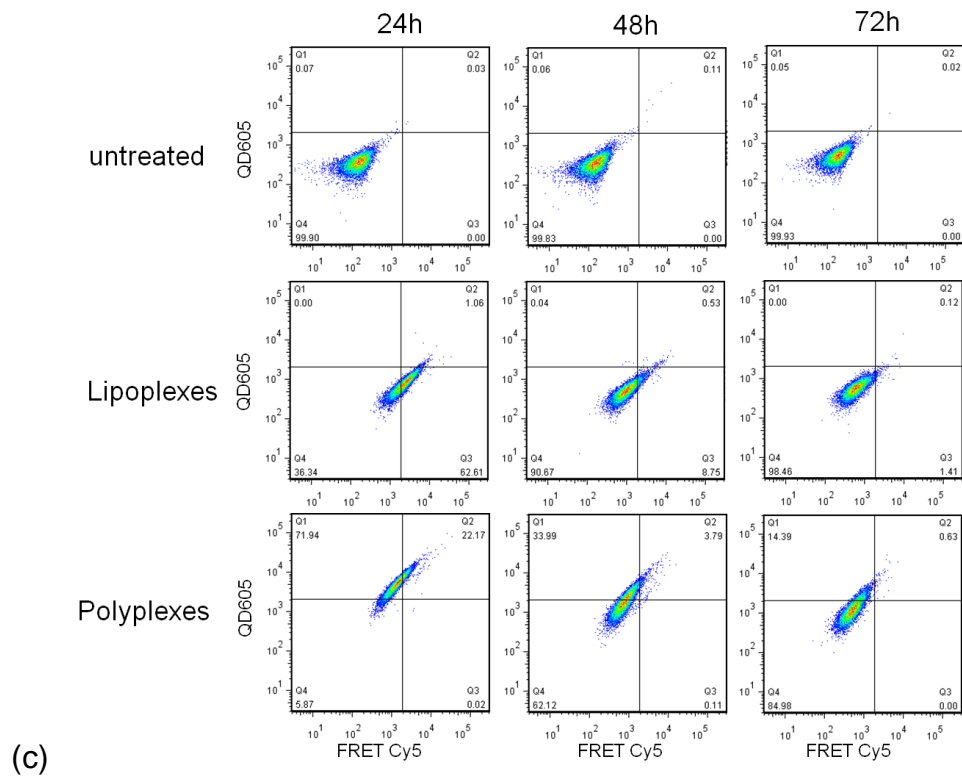


Figure 2s Cellular uptake and intracellular fate of QD605/Cy5-GTI2040 lipoplexes and polyplexes via flow cytometry analysis. (a-d) Representative flow cytometry data showing the fluorescence intensity change of QD605 and FRET Cy5 0.5, 1, 2, 4, 24, 48 and 72 h after the cells were treated with lipoplexes and polyplexes at Cy5-GTI2040 concentration of $1\mu\text{M}$.

Table 1s Size and surface charge of lipoplexes and polyplexes used in this study

Sample	Size (nm)	Polydispersity index (PDI)	PDI Width (nm)	Zeta Potential (mV)	Stdev (mV)
GTI2040 lipoplexes	125.10	0.17	51.88	22.24	1.29
Cy5-GTI2040 lipoplexes	166.70	0.19	72.09	4.47	0.51
QD605/GTI2040 lipoplexes	131.70	0.23	63.16	17.20	0.49
GTI2040 polyplexes	88.06	0.32	49.89	7.78	1.79
Cy5-GTI2040 polyplexes	97.91	0.08	28.04	9.41	0.67
QD605/GTI2040 polyplexes	198.80	0.08	56.93	8.36	0.56