Supplementary Table S1. The results of SE-HPLC analysis on the monomolecular conformation of G-quadruplex aptamers. The $V_R/V_0$ parameter is a relative retention volume of the peak with 0.9 ratio between expected and experimental molecular weights, which were attributed to the monomolecular conformation. The quantity of the monomolecular form was calculated as the relative peak area.

| Aptamer | Concentration, μM | $V_R/V_0$ | Quantity, % |
|---------|-------------------|-----------|-------------|
| RHA0385 | 2                 | 1.58      | 100         |
|         | 200               | 1.58      | 31          |
|         | 400               | 1.58      | 21          |
| G7-TTATTTA | 2             | 1.57      | 86          |
|         | 200               | 1.58      | 51          |
|         | 400               | 1.58      | 39          |
| G7-TAAAGAA | 2              | 1.58      | 91          |
|         | 200               | 1.58      | 24          |
|         | 400               | 1.58      | 15          |
| G7-TTA   | 2                 | 1.61      | 86          |
|         | 200               | 1.61      | 90          |
|         | 400               | 1.61      | 69          |