IDT™ miRNA Inhibitors

1. Centrifuge tubes before opening to ensure IDT miRNA Inhibitor is at the bottom of the tube.
2. Resuspend IDT miRNA Inhibitor in the appropriate volume of IDTE buffer or TE buffer toobtain the desired concentration.

   For example:

Product	Volume for 100 µM*
IDT miRNA Inhibitor, 5 nmol	50 µL
IDT miRNA Inhibitor, 20 nmol	200 µL
IDT miRNA Inhibitor, 250 nmol	2500 µL

* Further dilutions of IDT miRNA Inhibitors can be made using IDTE or TE buffer.

3. Store resuspended IDT miRNA Inhibitors at –20°C for up to 24 months.

Note: See next page for transfection tips.

Tips for transfection of IDT miRNA Inhibitors into cultured cells

Successful miRNA modulation experiments require high transfection efficiency of the miRNA inhibitors into cells. We recommend the following tips:

- Typically, use methods similar to those designed for siRNA transfection (e.g., cationic lipids or electroporation).
- Perform preliminary experiments to optimize transfection conditions for primary or difficult-to-transfect cells.

Because miRNA function is based on recognition of a seed region rather than complete homology between miRNA and target, a single miRNA can regulate tens to hundreds of genes whose sequences do not share exact complementarity with the miRNA. Therefore, inhibition of a single miRNA could affect the expression of many genes. We recommend the following:

- Use the lowest possible amount of IDT miRNA Inhibitors that results in the desired phenotype.