

## mmu-miR-683 miRNA Agomir

Catalog #	Source	Reactivity	Applications
CMN0278	Synthetic	M	

**Description** Synthetic miRNA Agomir is used to regulate the expression of target mmu-miR-683 mRNA.

**Specificity** Agomir is chemically-modified double-strand miRNA mimics which can mimic mature endogenous miRNAs after transfection into cells. They can up-regulate the endogenous miRNA activity by utilizing the natural miRNA machinery. Our miRNA agomir is designed to mimic mature miRNAs, and chemically modified to increase their stability and activity.

**Form** Lyophilized powder

**Gene Symbol** mmu-miR-683

**Accession No.** MIMAT0003461

**Components** This synthetic miRNA is based on the mature miRNA sequence. The antisense strand of the agomir has 2 phosphorothioates at the 5' end, 4 phosphorothioates, 1 cholesterol group at the 3' end, and full-length nucleotide 2'-methoxy modification. It exhibits enhanced cellular uptake, stability and regulatory activity in vivo.

**Directions for Use** Briefly centrifuge tubes containing miRNA agomir to ensure that the miRNA pellet is located at the bottom of the tube. Dissolve miRNA agomir to a convenient stock concentration using the recommended volume of DEPC H<sub>2</sub>O (or RNase-free water). For example: dissolve 5 nmol miRNA agomir to 20 μM using 250 μl DEPC H<sub>2</sub>O (or RNase-free water). Pipette the solution up and down 3-5 times (or vortex briefly). Briefly centrifuge tubes containing miRNA agomir to ensure that the solution is collected at the bottom of the tube. Aliquot the miRNA agomir into small volumes

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, CHIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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# Product Data Sheet

and store at  $\leq -20^{\circ}\text{C}$ . miRNA agomir is stable (for 6 months under the specified storage condition). For best results, use in 3 months and limit freeze-thaw events for each tube no more than five times.

## Storage/Stability

Shipped at  $4^{\circ}\text{C}$ . Store at  $-20^{\circ}\text{C}$  for one year. Avoid freeze-thaw cycles after reconstitution.

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