



GenePharma

Upgraded miRNA

New Products

miR-Down™ Antagomir, miR-UP™ Agomir

Antagomir is a type of specially labeled and chemically-modified single-stranded microRNA, designed based on the mature microRNA sequence, which is special for inhibiting the expression of endogenous microRNA. Agomir is a type of specially labeled and chemically-modified double-stranded microRNA, it can regulate the biological function of target gene by mimicking endogenous microRNA. GenePharma could provide the upgraded product of miRNA mimics, inhibitors: miRNA agomir and antagomir.

★Offer you economical experimental program, easy experimental operation, and perfect experimental result.

### The Advantages of Antagomir and Agomir

- ◆ Compared with common miRNA inhibitor and mimics, both antagomir and agomir have a higher affinity for cell membrane, in the cell transfection experiment, the amount of transfection reagent could be much reduced.
- ◆ Especially suitable for animal in vivo RNAi experiment and have higher stability and inhibiting effect, can be injected into the animal by the methods of intravenous or local injection, easy to operate.
- ◆ It can be richened in target cells, inducing effective, specific and stable interfering effect.
- ◆ The interfering effect can last a long time, at least one week, the longest can be up to 5-6 weeks.

## Sales Promotion

### miR-Down™ Antagomir and Antagomir control

Cat. #	Products	Quantity	Purification	Price (USD)	Times (days)
B05001	miR-Down Antagomir	2OD(10nmol)	HPLC	175	10
B05003	miR-Down Antagomir	4OD(20nmol)	HPLC	250	10
B04007	Antagomir Negative Control	2OD	HPLC	175	10

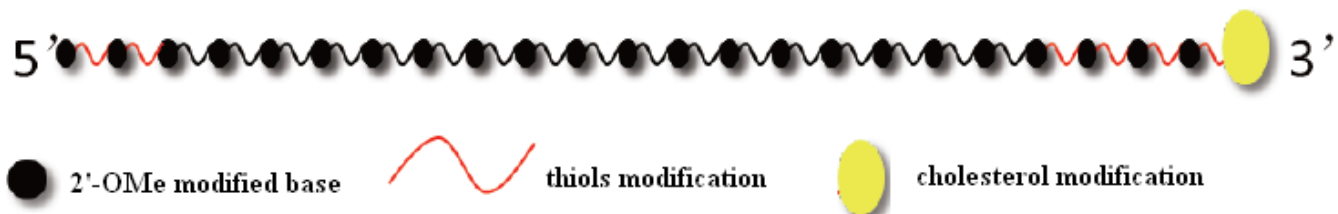
### miR-UP™ Agomir and Agomir control

Cat. #	Products	Quantity	Purification	Price (USD)	Times (days)
B06001	miR-UP Agomir	2OD(5nmol)	HPLC	175	10
B06003	miR-UP Agomir	4OD(10nmol)	HPLC	250	10
B04008	Agomir Negative Control	2OD	HPLC	175	10

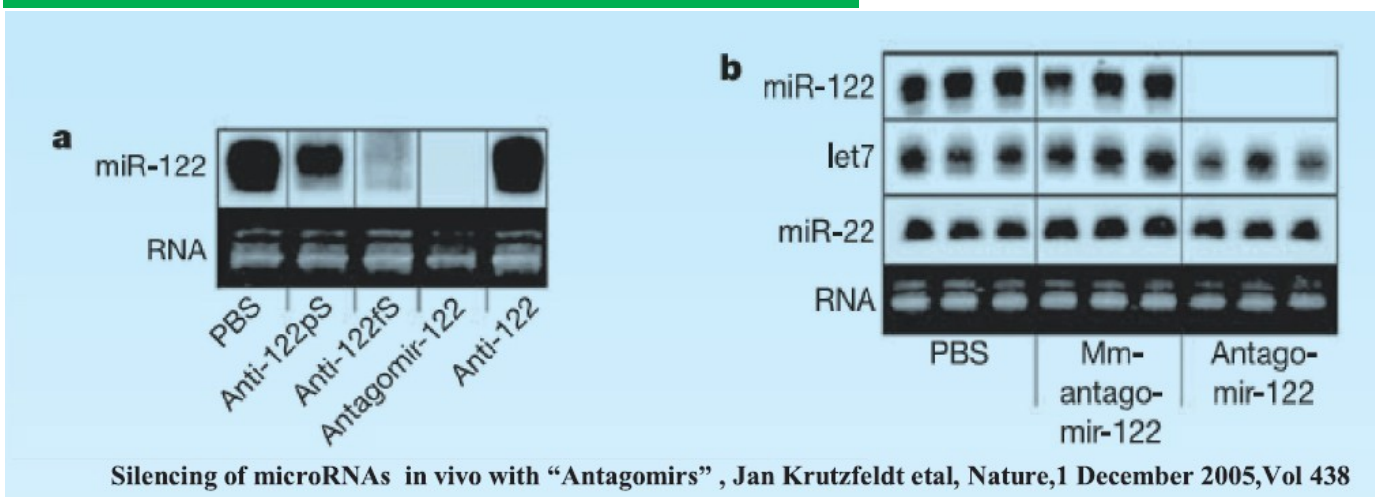
## Construction of Antagomir and Agomir

**Antogimir:** 3' terminal was modified by cholesterol, there are two thiols modification in the 5' terminal, four thiols modification in the 3' terminal, and the whole strand is modified by 2'-OMe.

**Agomir:** antisense strand modification, 3' terminal was modified by cholesterol, there are two thiols modification in the 5' terminal, four thiols modification in the 3' terminal, and the whole strand is modified by 2'-OMe.



## Experimental result comparison



- ◆ (Fig. a) It shows the interfering effect of antagomir miRNA is much better than other chemical modified miRNA.
- ◆ (Fig. b) Antagomir can inhibit the target microRNA specifically. The effects of antagomir-122 were found to be specific because a control for antagomir-122 that harboured four mismatch mutations (mm-antagomir-122) had no effect on miR-122 levels. Furthermore, expression levels of let7 and miR-22 were unaffected treated with antagomir-122 and mm-antagomir-122, indicating that silencing was miRNA-specific.

## Operation instruction

- **Store condition:** Shipped at room temperature in 1.5ml transparent tubes in dried powder. Recommended storage should be at -20°C for long time. It could be kept for 1 year in this condition.
- **Cell experiment:** Prepare 20μM solution in one tube. Taking 12 well plate for example, recommended minimal usage is 20pmol in each well and transfection reagent (Lipofectamine2000) usage is 0.5μl.
- **Animal vivo experiment:** Antagomir or Agomir is dissolved in physiological saline or glucose solution, recommended solution concentration is 10 to 500μM. The solution could be applied to animal vivo injection, and the dosage is 5-100mg/kg in whole body injection.

Please contact [bd@genepharma.com](mailto:bd@genepharma.com) for prices and supports.