

# MicroRNA

## miRNA

HDAC Inhibitor:  
Vorinostat (SAHA)



HDAC (Histone deacetylase)

MiRNAs are 21-25 nucleotide RNAs that negatively regulate gene expression through translational repression or cleavage of a target mRNA. They are transcribed as precursors that are processed by the nucleases Drosha and Dicer.

Small molecules targeting the secondary structure of precursor miRNAs can be more selective modulators of function than oligonucleotides that target RNA sequence.

MicroRNAs (miRNAs) and promoter hypermethylation are vital epigenetic mechanisms for transcriptional inactivation of tumor suppressor.

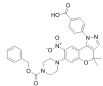
## MicroRNA Inhibitors & Modulators

### Lin28-let-7a antagonist 1

Cat. No.: HY-100692

**Bioactivity:** Lin28-let-7a antagonist 1 shows a clear antagonistic effect against the **Lin28-let-7a interaction** with an **IC<sub>50</sub>** of 4.03  $\mu$ M for Lin28A-let-7a-1 interaction.

**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 250 mg, 500 mg

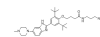


### MIR96-IN-1

Cat. No.: HY-15843

**Bioactivity:** MIR96-IN-1 selectively inhibits biogenesis of microRNA-96, upregulating a protein target (FOXO1) and inducing apoptosis in cancer cells. Target: microRNA-96 in vitro: MIR96-IN-1 inhibits biogenesis of its target precursor miRNA to varying extents : MIR96-IN-1 reduces the expression level of miR-96 by...

**Purity:** 99.30%  
**Clinical Data:** No Development Reported  
**Size:** 10mM x 1mL in DMSO,  
1 mg, 5 mg, 10 mg, 50 mg, 100 mg



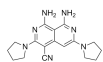
### SID 3712249

(MiR-544 Inhibitor 1)

Cat. No.: HY-19731

**Bioactivity:** SID 3712249 (MiR-544 Inhibitor 1) is an inhibitor of the biogenesis of microRNA-544 (miR-544).

**Purity:** 98.82%  
**Clinical Data:** No Development Reported  
**Size:** 10mM x 1mL in DMSO,  
5 mg, 10 mg, 25 mg, 50 mg, 100 mg



### Targapremir-210

Cat. No.: HY-15861

**Bioactivity:** Targapremir-210 is a potent **miR-210** inhibitor with an **IC<sub>50</sub>** of 200 nM in MDA-MB-231 cells. Targapremir-210 binds to the Dicer site of the miR-210 hairpin precursor. This interaction inhibits production of the mature miRNA.

**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 250 mg, 500 mg

