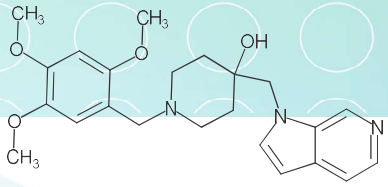
SL-67. Inhibitors of microRNA-29

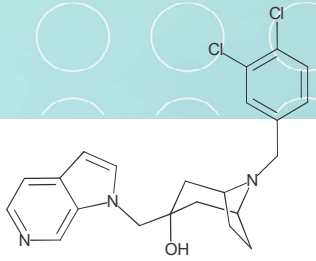
ASINEX
Signature Libraries

A number of microRNAs (miRNAs) and their maturation process precursors, pri-miRNAs and pre-miRNAs, are considered to be promising drug targets for therapeutic development [1]. Identification of small molecules that bind directly and selectively to the specific structural element of miRNA represents a significant challenge due to the complexity of the assay development and the availability of suitable screening libraries. It has, however, been hypothesized that compounds having at least one basic nitrogen are favored due to possible electrostatic interaction with negatively charged RNAs.

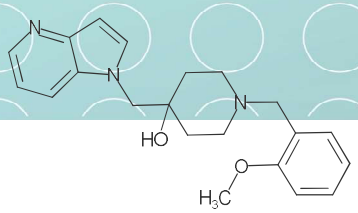
In a paper submitted by the Prof. Nakatani group, several small molecules were disclosed exhibiting detectable affinity to pre-miR-29a - a miRNA involved in multiple pathophysiological processes [2]. Analogs of one of the hit molecules (S-6) have been included in this library.



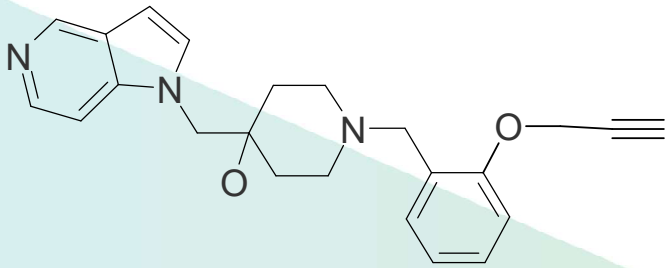
LAS 17111600



LAS 18105751



LAS 18687451



S-6 [1]

Signature Library 67

Formats	Supplementary Information
80 compounds per plate 0.1 mg; 1 mg; 2 mg dry film/powder 0.1 µmol; 1 µmol DMSO solutions	SL#67_miR-29.sdf

References:

1. *Chem. Eur. J.* 2015, 21, 16859 – 16867. 10.1002/chem.201502913
2. Bioscience Reports Dec 06, 2017, doi: 10.1042/BSR20171265

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