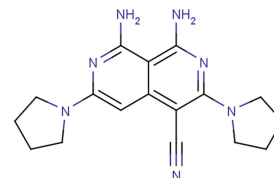


SID 3712249

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No.:          | 522606-67-3  |
| Formula:          | C <sub>17</sub> H <sub>21</sub> N <sub>7</sub>                         |
| Molecular Weight: | 323.4  |
| Appearance:       | N/A  |
| Storage:          | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



## Biological Description

|                            |  |
|----------------------------|--|
| Description                | SID 3712249 is an inhibitor of the biogenesis of microRNA-544 (miR-544).   |
| Targets(IC <sub>50</sub> ) | Others: None   |
| In vitro                   | MiR-544 represses expression of mTOR, promoting tumor cell survival in a hypoxic environment. Inhibition of miR-544 processing with MiR-544 Inhibitor 1 caused apoptosis in triple-negative breast cancer cells in response to hypoxic stress, sensitized their response to 5-fluorouracil, and blocked their growth after transplantation into immunodeficient mice. SID 3712249 (MiR-544 Inhibitor 1) is believed to bind directly to the precursor miRNA, blocking the production of the mature microRNA and resulting in decreased miR-544, HIF-1 $\alpha$ , and ATM transcripts. MiR-544 Inhibitor 1 was as selective and 25-fold more potent than a 2'-O-methyl RNA antagomir. |

## Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: 16.67 mg/mL (51.55 mM)<br>( < 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

### Preparing Stock Solutions

|       | 1mg      | 5mg       | 10mg      |
|-------|----------|-----------|-----------|
| 1 mM  | 3.092 mL | 15.461 mL | 30.921 mL |
| 5 mM  | 0.618 mL | 3.092 mL  | 6.184 mL  |
| 10 mM | 0.309 mL | 1.546 mL  | 3.092 mL  |
| 50 mM | 0.062 mL | 0.309 mL  | 0.618 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

1. Zhi Q, et al. Oncogenic miR-544 is an important molecular target in gastric cancer. Anticancer Agents Med Chem. 2013 Feb;13(2):270-5.

Inhibitors · Natural Compounds · Compound Libraries

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