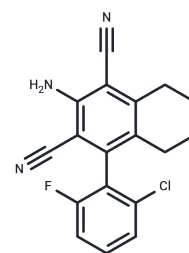


## Tubulin polymerization-IN-31

### Chemical Properties

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| CAS No. :         | 2421121-79-9                                             |
| Formula:          | C <sub>18</sub> H <sub>13</sub> ClFN <sub>3</sub>        |
| Molecular Weight: | 325.77                                                   |
| Appearance:       | no data available                                        |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



### Biological Description

|             |                                                                                                                                                                                                                                                                      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Tubulin polymerization-IN-31 (Compound 4c) has antitumor activity and induces apoptosis of cancer cell. Tubulin polymerization-IN-31 is an inhibitor of tubulin polymerization with an IC <sub>50</sub> value of 3.64 $\mu$ M [1].                                   |
| In vitro    | Tubulin polymerization inhibitor IN-31 (Compound 4c) exhibits antitumor potency, demonstrated by IC <sub>50</sub> values of 6.02 $\pm$ 0.5 $\mu$ M for HepG2, 8.45 $\pm$ 1.0 $\mu$ M for HCT-116, and 6.28 $\pm$ 0.6 $\mu$ M for MCF-7 cell lines, respectively [1]. |

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.0697 mL | 15.3483 mL | 30.6965 mL |
| 5 mM  | 0.6139 mL | 3.0697 mL  | 6.1393 mL  |
| 10 mM | 0.307 mL  | 1.5348 mL  | 3.0697 mL  |
| 50 mM | 0.0614 mL | 0.307 mL   | 0.6139 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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