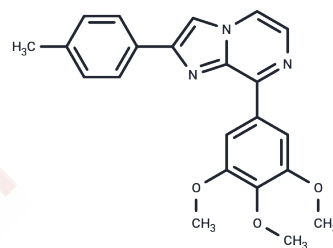


Tubulin polymerization-IN-47

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2834087-62-4 |
| Formula: | C ₂₂ H ₂₁ N ₃ O ₃ |
| Molecular Weight: | 375.42 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|----------------------------|---|
| Description | Tubulin polymerization-IN-47 is a tubulin polymerization inhibitor and mitotic inhibitor with antitumor activity and inhibitory effects on neuroblastoma cancer cell proliferation, with IC ₅₀ s of 7 and 12 nM for Chp-134 and Kelly cell lines, respectively. Tubulin polymerization-IN-47 is a candidate compound for the treatment of hepatocellular carcinoma, colon cancer, lung cancer and breast cancer. |
| Targets(IC ₅₀) | Microtubule Associated |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: 6.67 mg/mL (17.77 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.6637 mL | 13.3184 mL | 26.6368 mL |
| 5 mM | 0.5327 mL | 2.6637 mL | 5.3274 mL |
| 10 mM | 0.2664 mL | 1.3318 mL | 2.6637 mL |
| 50 mM | 0.0533 mL | 0.2664 mL | 0.5327 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Joshua Thammathong, et al. Fused Imidazopyrazine-Based Tubulin Polymerization Inhibitors Inhibit Neuroblastoma Cell Function. ACS Med. Chem. Lett. 2023.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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