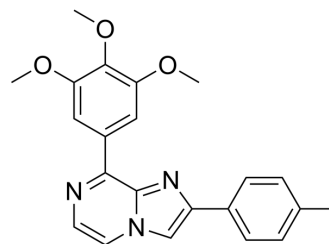


Tubulin polymerization-IN-47

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-155962 | | |
| CAS No.: | 2834087-62-4 | | |
| Molecular Formula: | C ₂₂ H ₂₁ N ₃ O ₃ | | |
| Molecular Weight: | 375.42 | | |
| Target: | Microtubule/Tubulin | | |
| Pathway: | Cell Cycle/DNA Damage; Cytoskeleton | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (332.96 mM; ultrasonic and warming and heat to 60°C)

| Concentration | Mass | | |
|---------------|-----------|------------|------------|
| | 1 mg | 5 mg | 10 mg |
| 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 |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Tubulin polymerization-IN-47 (Compound 4h) is a tubulin polymerization inhibitor and mitotic inhibitor. Tubulin polymerization-IN-47 inhibits neuroblastoma cancer cell proliferation, with IC₅₀s of 7 and 12 nM for Chp-134 and Kelly cell line^[1].

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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