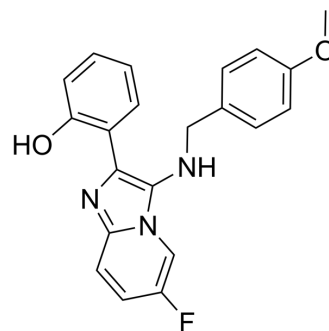


Antiproliferative agent-14

Cat. No.:	HY-148265
CAS No.:	1885900-35-5
Molecular Formula:	C ₂₁ H ₁₈ FN ₃ O ₂
Molecular Weight:	363.38
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (275.19 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
1 mM			2.7519 mL	13.7597 mL	27.5194 mL
5 mM			0.5504 mL	2.7519 mL	5.5039 mL
10 mM			0.2752 mL	1.3760 mL	2.7519 mL

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

BIOLOGICAL ACTIVITY

Description

Antiproliferative agent-14 (compound 3b) a potent tubulin polymerization inhibitor, with an IC₅₀ of 3.41 μM. Antiproliferative agent-14 has excellent antiproliferative activity. Antiproliferative agent-14 possess the ability to arrest cells at G2/M phases of the cell cycle^[1].

In Vitro

Antiproliferative agent-14 (compound 3b) shows antiproliferative activity against HeLa cell (IC₅₀=13 nM)^[1]. Antiproliferative agent-14 shows inhibition of colchicine binding activity, with 72.2% inhibitory percentage^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. An W, et al. Discovery of novel 2-phenyl-imidazo[1,2-a]pyridine analogues targeting tubulin polymerization as antiproliferative agents. Eur J Med Chem. 2016 Apr 13;112:367-372.

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

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