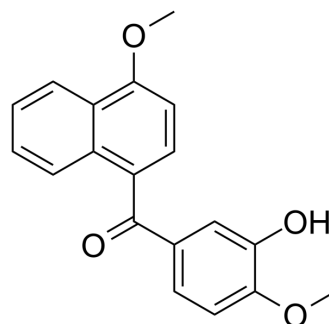


Tubulin polymerization-IN-22

Cat. No.:	HY-147824
CAS No.:	2493052-22-3
Molecular Formula:	C ₁₉ H ₁₆ O ₄
Molecular Weight:	308.33
Target:	Microtubule/Tubulin; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tubulin polymerization-IN-22 is a tubulin polymerization inhibitor with an IC ₅₀ of 8.1 μM. Tubulin polymerization-IN-22 arrests cell cycle at G2/M phase and induces apoptosis ^[1] .
In Vitro	Tubulin polymerization-IN-22 (Compound 4u) shows antiproliferative activity against human breast cancer cell line (MCF-7) with an IC ₅₀ of 1.47 μM ^[1] . Tubulin polymerization-IN-22 (Compound 4u) is a tubulin polymerization inhibitor by targeting the Colchicine binding site ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Guangcheng Wang, et al. Design, synthesis, and anticancer evaluation of benzophenone derivatives bearing naphthalene moiety as novel tubulin polymerization inhibitors. *Bioorg Chem.* 2020 Nov;104:104265.

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

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