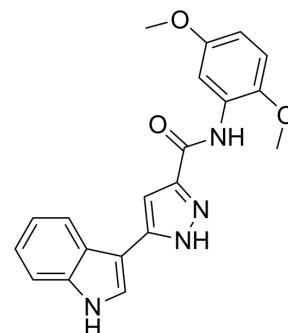


Tubulin polymerization-IN-45

Cat. No.:	HY-155139
Molecular Formula:	C ₂₀ H ₁₈ N ₄ O ₃
Molecular Weight:	362.38
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-45, a tubulin-targeting agent, is a tubulin polymerization inhibitor. Tubulin polymerization-IN-45 binds to the colchicine site of tubulin. Tubulin polymerization-IN-45 induces apoptotic cell death in hepatocellular cancer (HCC) cells ^[1] .
In Vitro	Tubulin polymerization-IN-45 (compound 18) shows potent activity against the hepatocellular cancer (HCC) cell lines, with IC ₅₀ values in the range 0.6-2.9 μM. Tubulin polymerization-IN-45 also exhibits moderate inhibitory activity against tubulin polymerization (IC ₅₀ = 19 μM). Tubulin polymerization-IN-45 causes cell cycle arrest at the G ₂ /M phase in both Huh7 and Mahlavu cells and induces apoptotic cell death in HCC cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mohammed Hawash, et al. Novel Indole-Pyrazole Hybrids as Potential Tubulin-Targeting Agents; Synthesis, antiproliferative evaluation, and molecular modeling studies. J Mol Struct. 2023 Aug 5;1285:135477.

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

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