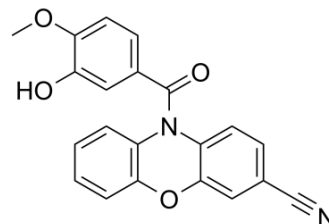


Tubulin inhibitor 7

| | |
|---------------------------|---|
| Cat. No.: | HY-136122 |
| CAS No.: | 1309925-41-4 |
| Molecular Formula: | C ₂₁ H ₁₄ N ₂ O ₄ |
| Molecular Weight: | 358.35 |
| Target: | Microtubule/Tubulin |
| Pathway: | Cell Cycle/DNA Damage; Cytoskeleton |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|---|
| Description | Tubulin inhibitor 7 (Compound 33c) is a tubulin inhibitor and a potent inhibitor of multiple cancer cell lines. Tubulin inhibitor 7 inhibits tubulin polymerization with an IC ₅₀ of 0.52 μM. Tubulin inhibitor 7 inhibits K562 cell growth with an IC ₅₀ of 11 nM ^[1] . |
| IC₅₀ & Target | IC ₅₀ : 0.52 μM (tubulin polymerization) ^[1] |
| In Vitro | Tubulin inhibitor 7 blocks mitosis through an arrest of cells in the G ₂ /M phase, as illustrated in typical histograms ^[1] . Tubulin inhibitor 7 shows excellent antiproliferative potencies with IC ₅₀ s of 40, 24, 16, 6, 29, and 16 nM for NCIH460, SKOV3, BT549, 451LU, SW480, and DLD-1 tumor cell lines, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Prinz H, et al. N-benzoylated phenoxazines and phenothiazines: synthesis, antiproliferative activity, and inhibition of tubulin polymerization. J Med Chem. 2011 Jun 23;54(12):4247-63.

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

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