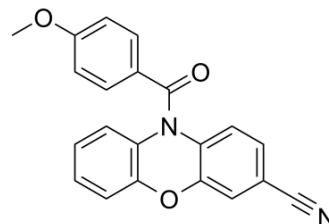


## Tubulin inhibitor 8

Cat. No.:	HY-136123
CAS No.:	1309925-39-0
Molecular Formula:	C <sub>21</sub> H <sub>14</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	342.35
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

<b>Description</b>	Tubulin inhibitor 8 (Compound 33b) is a tubulin inhibitor and a potent inhibitor of multiple cancer cell lines. Tubulin inhibitor 8 inhibits tubulin polymerization with an IC <sub>50</sub> of 0.73 μM. Tubulin inhibitor 8 inhibits K562 cell growth with an IC <sub>50</sub> of 14 nM <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 0.73 μM (tubulin polymerization) <sup>[1]</sup>
<b>In Vitro</b>	Tubulin inhibitor 8 blocks mitosis through an arrest of cells in the G <sub>2</sub> /M phase, as illustrated in typical histograms <sup>[1]</sup> . Tubulin inhibitor 8 shows excellent antiproliferative potencies with IC <sub>50</sub> s of 15, 6, 8, 2, 8, 6, and 9 nM for NCIH460, SKOV3, BT549, 451LU, SW480, COLO-205, and DLD-1 tumor cell lines, respectively <sup>[1]</sup> . 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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