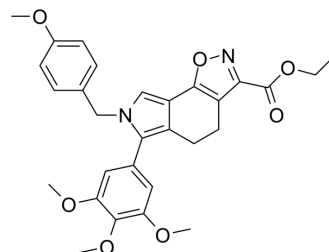


## Tubulin polymerization-IN-32

<b>Cat. No.:</b>	HY-151393
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>30</sub> N <sub>2</sub> O <sub>7</sub>
<b>Molecular Weight:</b>	518.56
<b>Target:</b>	Microtubule/Tubulin
<b>Pathway:</b>	Cell Cycle/DNA Damage; Cytoskeleton
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Tubulin polymerization-IN-32 is a tubulin polymerization inhibitor. Tubulin polymerization-IN-32 inhibits cancer cell proliferation. Tubulin polymerization-IN-32 can be used in the research of cancers like lymphomas <sup>[1]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	Tubulin polymerization <sup>[1]</sup>								
<b>In Vitro</b>	<p>Tubulin polymerization-IN-32 (compound 14k) shows antiproliferative activity against cancer cell lines of the NCI panel, reaching GI<sub>50</sub> values of 0.03-85.8 μM<sup>[1]</sup>.</p> <p>Tubulin polymerization-IN-32 (compound 14k, 72 h) inhibits lymphoma cells growth with IC<sub>50</sub>s of 1.4-2.0 μM<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>VL51, MINO, HBL1, SU-DHL-10 cells.</td> </tr> <tr> <td>Concentration:</td> <td>0-10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell proliferation to 79.7%, 41.3%, 70.1%, 59% at 1 μM, respectively. IC<sub>50</sub>s: 1.8, 1.4, 1.7, 2.0 μM, respectively.</td> </tr> </table>	Cell Line:	VL51, MINO, HBL1, SU-DHL-10 cells.	Concentration:	0-10 μM	Incubation Time:	72 h	Result:	Inhibited cell proliferation to 79.7%, 41.3%, 70.1%, 59% at 1 μM, respectively. IC <sub>50</sub> s: 1.8, 1.4, 1.7, 2.0 μM, respectively.
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### REFERENCES

[1]. Michael D Wendt, et al. Development of [1,2]oxazoloisoindoles tubulin polymerization inhibitors: Further chemical modifications and potential therapeutic effects against lymphomas. J Med Chem. 2006 Feb; 49(3): 1165-81.

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

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