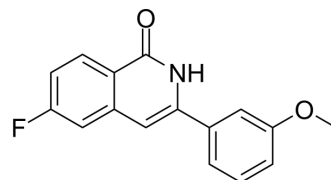


Tubulin inhibitor 16

Cat. No.:	HY-145822
CAS No.:	2767446-32-0
Molecular Formula:	C ₁₆ H ₁₂ FNO ₂
Molecular Weight:	269.27
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 16 is a potent tubulin inhibitor. Tubulin inhibitor 16 shows antiproliferative activity. Tubulin inhibitor 16 shows cytotoxicity in HepG2 cells ^[1] .																
In Vitro	<p>Tubulin inhibitor 16 (compound 2) (0-25 μM, 24 h followed by a 72 h compound-free incubation period) shows antiproliferative activity with IC₅₀s of 1.43, 0.19, 2.33, 0.58, 0.83, 0.20, >25 μM for MCF7, MDA-MB-231, HepG2, SNU423, A549, HCT116, THLE-3 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MCF7, MDA-MB-231, HepG2, SNU423, A549, HCT116 cells</td> </tr> <tr> <td>Concentration:</td> <td>0-50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>96 h</td> </tr> <tr> <td>Result:</td> <td>Showed antiproliferation activity with IC₅₀s of 0.75, 0.17, 3.12, 0.41, 0.37, 0.22 μM for MCF7, MDA-MB-231, HepG2, SNU423, A549, HCT116 cells, respectively.</td> </tr> </table> <p>Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HepG2 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.5, 1 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>14 days</td> </tr> <tr> <td>Result:</td> <td>Showed no colonies were apparent when cells were treated with 0.5 or 1 μM.</td> </tr> </table>	Cell Line:	MCF7, MDA-MB-231, HepG2, SNU423, A549, HCT116 cells	Concentration:	0-50 μM	Incubation Time:	96 h	Result:	Showed antiproliferation activity with IC ₅₀ s of 0.75, 0.17, 3.12, 0.41, 0.37, 0.22 μM for MCF7, MDA-MB-231, HepG2, SNU423, A549, HCT116 cells, respectively.	Cell Line:	HepG2 cells	Concentration:	0.5, 1 μM	Incubation Time:	14 days	Result:	Showed no colonies were apparent when cells were treated with 0.5 or 1 μM.
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REFERENCES

[1]. Elhemely MA, et al. SAR of Novel 3-Arylisoquinolinones: meta-Substitution on the Aryl Ring Dramatically Enhances Antiproliferative Activity through Binding to Microtubules. J Med Chem. 2022 Mar 24;65(6):4783-4797.

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

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