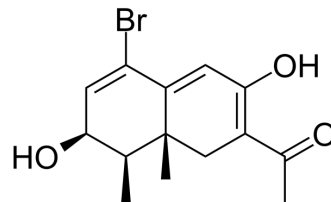


Antiproliferative agent-48

Cat. No.:	HY-163381
CAS No.:	1621594-62-4
Molecular Formula:	C ₁₄ H ₁₇ BrO ₃
Molecular Weight:	313.19
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antiproliferative agent-48 (compound PC-A1) shows selective antiproliferative activity against triple-negative breast cancer (TNBC) cells ^[1] .																
In Vitro	<p>Antiproliferative agent-48 (5-50 μM) inhibits proliferations against cancer cells MDA-MB-231 (TNBC), MCF-7, A549, KB (HeLa derivative) and KB-VIN with IC₅₀s of 5.4, 18, 19, 15 and 19 μM, respectively^[1].</p> <p>Antiproliferative agent-48 (5-50 μM) arrests the cell cycle at G2/M phase^[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>MDA-MB-231, MCF-7, A549, KB and KB-VIN</td> </tr> <tr> <td>Concentration:</td> <td>5-50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited proliferations in micromolar levels.</td> </tr> </table> <p>Cell Cycle Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MDA-MB-231</td> </tr> <tr> <td>Concentration:</td> <td>5-50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Arrested the cell cycle at G2/M phase.</td> </tr> </table>	Cell Line:	MDA-MB-231, MCF-7, A549, KB and KB-VIN	Concentration:	5-50 μM	Incubation Time:	72 h	Result:	Inhibited proliferations in micromolar levels.	Cell Line:	MDA-MB-231	Concentration:	5-50 μM	Incubation Time:	24 h	Result:	Arrested the cell cycle at G2/M phase.
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REFERENCES

- [1]. Maeda S, et al., Total Synthesis of a TNBC-Selective Cytotoxic Bromo Nor-eremophilane, PC-A, and Its Preliminary Structure-Activity Relationships. J Nat Prod. 2024 Mar 4.
- [2]. Maeda S, et al., Total Synthesis of a TNBC-Selective Cytotoxic Bromo Nor-eremophilane, PC-A, and Its Preliminary Structure-Activity Relationships. J Nat Prod. 2024 Mar

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

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