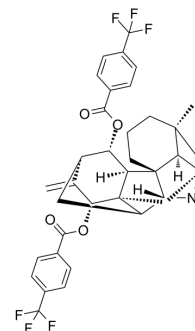


Kobusine derivative-1

Cat. No.:	HY-149032
Molecular Formula:	C ₃₆ H ₃₃ F ₆ NO ₄
Molecular Weight:	657.64
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Kobusine derivative-1 is a Kobusine derivative. Kobusine derivative-1 shows antiproliferative activities against cancer cells ^[1] .																
In Vitro	<p>Kobusine derivative-1 (0-20 μM; 72 h) exhibits significant antiproliferative activities against five human cancer cell lines^[1]. Kobusine derivative-1 (13.5 μM; 12 or 24 h) treatment likely induces apoptosis within 12 h, decreases numbers of cells in S and G2/M phases, resulting in accumulation of sub-G1^[1]. 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>A549, MDA-MB-231, MCF-7, KB, and KB-VIN cells</td> </tr> <tr> <td>Concentration:</td> <td>0-20 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 hours</td> </tr> <tr> <td>Result:</td> <td>Inhibited A549, MDA-MB-231, MCF-7, KB, and KB-VIN cells with IC₅₀ values of 4.8, 4.5, 4.7, 4.6, and 4.8 μM, respectively.</td> </tr> </table> <p>Cell Cycle Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MDA-MB-23 cells</td> </tr> <tr> <td>Concentration:</td> <td>13.5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>12 or 24 hours</td> </tr> <tr> <td>Result:</td> <td>Disrupted normal cell cycle progression after 12 h, decreased numbers of cells in S and G2/M phases, resulted in accumulation of sub-G1.</td> </tr> </table>	Cell Line:	A549, MDA-MB-231, MCF-7, KB, and KB-VIN cells	Concentration:	0-20 μM	Incubation Time:	72 hours	Result:	Inhibited A549, MDA-MB-231, MCF-7, KB, and KB-VIN cells with IC ₅₀ values of 4.8, 4.5, 4.7, 4.6, and 4.8 μM, respectively.	Cell Line:	MDA-MB-23 cells	Concentration:	13.5 μM	Incubation Time:	12 or 24 hours	Result:	Disrupted normal cell cycle progression after 12 h, decreased numbers of cells in S and G2/M phases, resulted in accumulation of sub-G1.
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REFERENCES

[1]. Koji Wada, et al. Discovery of C20-Diterpenoid Alkaloid Kobusine Derivatives Exhibiting Sub-G1 Inducing Activity. ACS Omega

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA