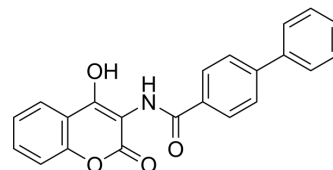


Anticancer agent 94

Cat. No.:	HY-152085
Molecular Formula:	C ₂₂ H ₁₅ NO ₄
Molecular Weight:	357.36
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anticancer agent 94 is a 4-Hydroxycoumarin derivative. Anticancer agent 94 can inhibit invasion and migration of lung cancer cells by modulating expression of epithelial-mesenchymal transition (EMT) effectors ^[1] .									
In Vitro	<p>Anticancer agent 94 (compound 4i) (5-15 μM; 24 h) significantly inhibits A549 cell invasion by ~ 40%^[1]. Anticancer agent 94 (15 μM; 24-72 h) significantly inhibits A549 cell migration^[1]. Anticancer agent 94 (5-15 μM; 4 h) inhibits lung cancer cell motility by downregulating EMT markers^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table><tr><td>Cell Line:</td><td>A549 cells</td></tr><tr><td>Concentration:</td><td>5, 10, 15 μM</td></tr><tr><td>Incubation Time:</td><td>24 hours</td></tr><tr><td>Result:</td><td>Significantly increased the expression of E-cadherin. Downregulated the expression of N-cadherin.</td></tr></table>		Cell Line:	A549 cells	Concentration:	5, 10, 15 μM	Incubation Time:	24 hours	Result:	Significantly increased the expression of E-cadherin. Downregulated the expression of N-cadherin.
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Concentration:	5, 10, 15 μM									
Incubation Time:	24 hours									
Result:	Significantly increased the expression of E-cadherin. Downregulated the expression of N-cadherin.									

REFERENCES

[1]. Zhou R, et, al. Synthesis of coumarin derivatives and investigation of their inhibitory effects on lung cancer cell motility. Sci Rep. 2022 Dec 14;12(1):21635.

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

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