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Diagnostik & molekulare Diagnostik



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Zuschläge

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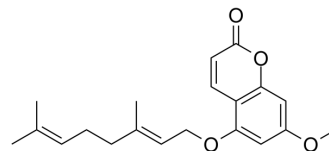
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5-Geranoxy-7-methoxycoumarin

Cat. No.:	HY-N8431
CAS No.:	7380-39-4
Molecular Formula:	C ₂₀ H ₂₄ O ₄
Molecular Weight:	328.4
Target:	Bacterial; Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	5-Geranoxy-7-methoxycoumarin is a coumarin with anti-cancer, antifungal, and antibacterial activities. 5-Geranoxy-7-methoxycoumarin induces cell apoptosis ^{[1][2]} .																				
In Vitro	<p>5-Geranoxy-7-methoxycoumarin (12.5-200 μM; 24-72 hours) induces a significant inhibition of cell growth in a time-dependent manner in SW480 cells^[1].</p> <p>5-Geranoxy-7-methoxycoumarin (50 μM; 48 hours) promotes DNA fragmentation and causes apoptosis through inhibition of the p38 MAPK signaling pathway in SW480 cells^[1].</p> <p>5-Geranoxy-7-methoxycoumarin (50 μM; 24-48 hours) increases the percentage of cells in the sub G1/G0 phase from 5.3% (in control cells) to 18% after 48 h incubation^[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>SW480</td> </tr> <tr> <td>Concentration:</td> <td>0-20 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24, 48 and 72 hours</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell growth by 67% at 72 hours.</td> </tr> </table> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>SW480 cells</td> </tr> <tr> <td>Concentration:</td> <td>50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 hours</td> </tr> <tr> <td>Result:</td> <td>Induced cell apoptosis.</td> </tr> </table> <p>Cell Cycle Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>SW480 cells</td> </tr> <tr> <td>Concentration:</td> <td>50 μM</td> </tr> </table>	Cell Line:	SW480	Concentration:	0-20 μM	Incubation Time:	24, 48 and 72 hours	Result:	Inhibited cell growth by 67% at 72 hours.	Cell Line:	SW480 cells	Concentration:	50 μM	Incubation Time:	48 hours	Result:	Induced cell apoptosis.	Cell Line:	SW480 cells	Concentration:	50 μM
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Concentration:	50 μM																				

Incubation Time:	48 hours
Result:	Inhibited cell cycle progression in vitro.

REFERENCES

- [1]. Jaiprakash R Patil, et al. 5-Geranyloxy-7-methoxycoumarin inhibits colon cancer (SW480) cells growth by inducing apoptosis. *Planta Med.* 2013 Mar;79(3-4):219-26.
- [2]. Guo-Ying Zuo, et al. Synergism of coumarins from the Chinese drug *Zanthoxylum nitidum* with antibacterial agents against methicillin-resistant *Staphylococcus aureus* (MRSA). *Phytomedicine*
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Caution: Product has not been fully validated for medical applications. For research use only.

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