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Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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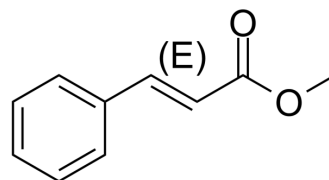
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Methyl (E)-cinnamate

Cat. No.:	HY-W067056
CAS No.:	1754-62-7
Molecular Formula:	C ₁₀ H ₁₀ O ₂
Molecular Weight:	162.19
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Methyl (E)-cinnamate (EMC), a phytochemical constituent isolated from <i>Alpinia katsumadai</i> Hayata, is a natural flavor compound with anti-inflammatory properties. Methyl (E)-cinnamate is widely used in the food and commodity industry ^[1] .																		
In Vitro	<p>Methyl (E)-cinnamate (0~30 μM; 24 hours; MC3T3-E1 cells) significantly increases the cleaved forms of poly (ADP-ribose) polymerase (PARP) and caspase-3, while it decreases the expression levels of Survivin and Bcl-2, and significantly increases TUNEL-positive and DAPI-stained cells^[1].</p> <p>Methyl (E)-cinnamate (0~30 μM; 7 days; MC3T3-E1 cells) suppresses the osteoblast differentiation^[1].</p> <p>Methyl (E)-cinnamate (1~100 μM; 24 and 48 hours; MC3T3-E1 cells) decreases cell survival and induces morphological changes. EMC decreases MAPKs signaling and cell migration^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MC3T3-E1 cells</td> </tr> <tr> <td>Concentration:</td> <td>0~30 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Significantly increased the cleaved forms of poly (ADP-ribose) polymerase (PARP) and caspase-3, while it decreased the expression levels of Survivin and Bcl-2.</td> </tr> </table> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MC3T3-E1 cells</td> </tr> <tr> <td>Concentration:</td> <td>0~30 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Significantly increased TUNEL-positive and DAPI-stained cells.</td> </tr> </table> <p>Cell Differentiation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MC3T3-E1 cells</td> </tr> </table>	Cell Line:	MC3T3-E1 cells	Concentration:	0~30 μM	Incubation Time:	24 hours	Result:	Significantly increased the cleaved forms of poly (ADP-ribose) polymerase (PARP) and caspase-3, while it decreased the expression levels of Survivin and Bcl-2.	Cell Line:	MC3T3-E1 cells	Concentration:	0~30 μM	Incubation Time:	24 hours	Result:	Significantly increased TUNEL-positive and DAPI-stained cells.	Cell Line:	MC3T3-E1 cells
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Cell Line:	MC3T3-E1 cells																		

Concentration:	0~30 μ M
Incubation Time:	7 days
Result:	Suppressed the osteoblast differentiation.

REFERENCES

[1]. Park KR, et al. A Phytochemical Constituent, (E)-Methyl-Cinnamate Isolated from *Alpinia katsumadai* Hayata Suppresses Cell Survival, Migration, and Differentiation in Pre-Osteoblasts. *Int J Mol Sci.* 2020;21(10):3700. Published 2020 May 24.

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

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