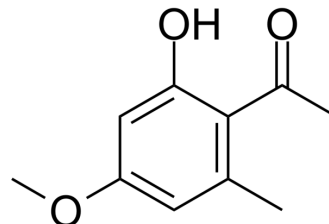


6'-Methyl paeonol

Cat. No.:	HY-163283
CAS No.:	6540-66-5
Molecular Formula:	C ₁₀ H ₁₂ O ₃
Molecular Weight:	180.2
Target:	Amyloid-β
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	6'-Methyl paeonol is a paeonol derivative, which inhibits abnormal depolarizations and reduces the Amyloid β-induced ERK phosphorylation. 6'-Methyl paeonol exhibits alleviating activity against Alzheimer's Disease ^[1] .								
In Vitro	<p>6'-Methyl paeonol (0.1-100 μM) inhibits the NMDA- and AMPA-induced neuronal depolarization, and thereby ameliorates the Aβ-induced abnormal depolarization.</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>C2C12</td> </tr> <tr> <td>Concentration:</td> <td>100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>2 h</td> </tr> <tr> <td>Result:</td> <td>Reversed the increase of ERK phosphorylation induced by Aβ</td> </tr> </table>	Cell Line:	C2C12	Concentration:	100 μM	Incubation Time:	2 h	Result:	Reversed the increase of ERK phosphorylation induced by Aβ
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Concentration:	100 μM								
Incubation Time:	2 h								
Result:	Reversed the increase of ERK phosphorylation induced by Aβ								
In Vivo	<p>6'-Methyl paeonol (20 mg/kg, s.c.) ameliorates the impairment of memory and learning behavior in J20 mice^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>APP transgenic C57BL/6 mice (J20 mice)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>20 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>subcutaneous injection</td> </tr> <tr> <td>Result:</td> <td>Reduced the time for mice reaching hidden platform.</td> </tr> </table>	Animal Model:	APP transgenic C57BL/6 mice (J20 mice) ^[1]	Dosage:	20 mg/kg	Administration:	subcutaneous injection	Result:	Reduced the time for mice reaching hidden platform.
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REFERENCES

[1]. Chen PJ, et al., Derivative, 6'-Methyl Paeonol, Attenuates Aβ-Induced Pathophysiology in Cortical Neurons and in an Alzheimer's Disease Mice Model. ACS Chem Neurosci. 2024 Feb 21;15(4):724-734.

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