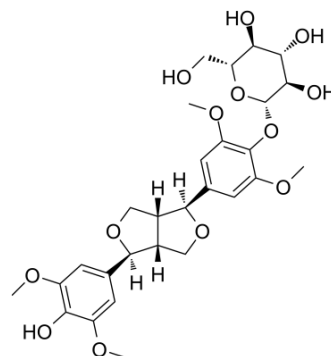


Acanthoside B

Cat. No.:	HY-N2807
CAS No.:	7374-79-0
Molecular Formula:	C ₂₈ H ₃₆ O ₁₃
Molecular Weight:	580.58
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Acanthoside B is a potential bioactive lignan with anti-inflammatory and anti-amnesic activities. Acanthoside B can be used for alzheimer's disease and lung inflammation research ^[1]									
In Vivo	<p>Acanthoside B (oral gavage; 10-20 mg/kg; 7 days prior to Scopolamine injection) attenuates Scopolamine inflicted AD-like amnesic traits by restoring the cholinergic activity, decreasing the endogenous antioxidant status, suppressing neuroinflammation, and activating the TrkB/CREB/BDNF pathway in 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>Scopolamine-induced amnesic mouse model^[1]</td> </tr> <tr> <td>Dosage:</td> <td>10 mg/kg; 20 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>oral gavage; 7 days</td> </tr> <tr> <td>Result:</td> <td>Exhibited an anti-amnesic effect in mice.</td> </tr> </table>		Animal Model:	Scopolamine-induced amnesic mouse model ^[1]	Dosage:	10 mg/kg; 20 mg/kg	Administration:	oral gavage; 7 days	Result:	Exhibited an anti-amnesic effect in mice.
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REFERENCES

- [1]. Govindarajan Karthivashan, et al. Cognitive-enhancing and ameliorative effects of acanthoside B in a scopolamine-induced amnesic mouse model through regulation of oxidative/inflammatory/cholinergic systems and activation of the TrkB/CREB/BDNF pathway. *Food Chem Toxicol.* 2019 Jul;129:444-457.
- [2]. Ju Hee Lee, et al. Inhibition of Lung Inflammation by Acanthopanax divaricatus var. Albeofructus and Its Constituents. *Biomol Ther (Seoul).* 2016 Jan;24(1):67-74.

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

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