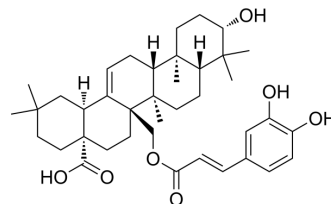


## Myriceric acid B

Cat. No.:	HY-N3222
CAS No.:	55497-79-5
Molecular Formula:	C <sub>39</sub> H <sub>54</sub> O <sub>7</sub>
Molecular Weight:	634.84
Target:	HIV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Myriceric acid B is a potent HIV-1 entry inhibitor targeting gp41. Myriceric acid B is an antitumor agent <sup>[1][2]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	HIV-1 8.3±0.2 µg/mL (IC <sub>50</sub> , infection of HIV-1 Env pseudovirus)								
<b>In Vitro</b>	<p>Myriceric acid B (0-30 µM; 72 h) shows potent cytotoxicity against tumor cells<sup>[1]</sup>.</p> <p>Myriceric acid B significantly inhibits the infection of HIV-1 Env pseudovirus with an IC<sub>50</sub> of 8.3±0.2 mg/L<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>A549, SK-OV-3, SK-MEL-2 and Bt549</td> </tr> <tr> <td>Concentration:</td> <td>0-30 µM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 h</td> </tr> <tr> <td>Result:</td> <td>Exhibited potent cytotoxicity against all of the tumor cell lines tested, with IC<sub>50</sub>s of 5.7±0.3, 9.8±0.5, 6.0±0.7 and 5.8±0.4 µM against A549, SK-OV-3, SK-MEL-2 and Bt549, respectively.</td> </tr> </table>	Cell Line:	A549, SK-OV-3, SK-MEL-2 and Bt549	Concentration:	0-30 µM	Incubation Time:	72 h	Result:	Exhibited potent cytotoxicity against all of the tumor cell lines tested, with IC <sub>50</sub> s of 5.7±0.3, 9.8±0.5, 6.0±0.7 and 5.8±0.4 µM against A549, SK-OV-3, SK-MEL-2 and Bt549, respectively.
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### REFERENCES

[1]. Eom HJ, et al. Cytotoxic Triterpenoids from the Barks of *Betula platyphylla* var. *japonica*. *Chem Biodivers*. 2017 Apr;14(4).

[2]. Xia C, et al. The anti-HIV-1 entrance activity and mechanism of action of myriceric acid B from *Rhoiptelea chiliantha* Diels et Hand-Mazz. *Chinese Pharmacological Bulletin*, 2010: 447-452.

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

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