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- Expressversand

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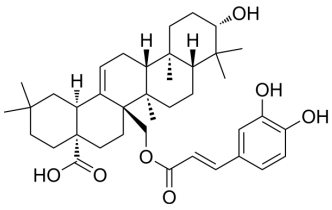
Myriceric acid B

Cat. No.:	HY-N3222
CAS No.:	55497-79-5
Molecular Formula:	$C_{39}H_{54}O_7$
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

Description	Myriceric acid B is a potent HIV-1 entry inhibitor targeting gp41. Myriceric acid B is an antitumor agent[1][2].
IC_{50} & Target	HIV-1 8.3±0.2 μg/mL (IC_{50}, infection of HIV-1 Env pseudovirus)
In Vitro	Myriceric acid B (0-30 μM; 72 h) shows potent cytotoxicity against tumor cells[1]. Myriceric acid B significantly inhibits the infection of HIV-1 Env pseudovirus with an IC_{50} of 8.3±0.2 mg/L[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

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_{50}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.

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.

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