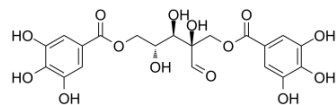


Hamamelitannin

Cat. No.:	HY-N4117
CAS No.:	469-32-9
Molecular Formula:	C ₂₀ H ₂₀ O ₁₄
Molecular Weight:	484.36
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Hamamelitannin, a polyphenol extracted from the bark of <i>Hamamelis virginiana</i> , is a quorum-sensing (QS) inhibitor. Hamamelitannin increases antibiotic susceptibility of <i>Staphylococcus aureus</i> biofilms by affecting peptidoglycan biosynthesis and eDNA release ^{[1][2]} .
In Vitro	Hamamelitannin displays specific cytotoxic activity against colon cancer cells ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Kiran MD, et al. Discovery of a quorum-sensing inhibitor of drug-resistant staphylococcal infections by structure-based virtual screening. *Mol Pharmacol*. 2008 May;73(5):1578-86.
- [2]. Cobrado L, et al. In vivo antibiofilm effect of cerium, chitosan and hamamelitannin against usual agents of catheter-related bloodstream infections. *J Antimicrob Chemother*. 2013 Jan;68(1):126-30.
- [3]. Sánchez-Tena S, et al. Hamamelitannin displays specific cytotoxic activity against colon cancer cells. *J Nat Prod*. 2012 Jan 27;75(1):26-33.

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

India Contact:
Life Technologies (India) Pvt. Ltd.
306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com