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## Product Data Sheet

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Product Name: Hamamelitannin

Cat. No.: GC60185

**Chemical Properties**

Cas. No. 469-32-9

SMILES O=C[C@]([C@@H]([C@@H](COC(C1=CC(O)=C(O)C(O)=C1)=O)O)O)(COC(C2=CC(O)=C(O)C(O)=C2)=O)O

Formula C<sub>20</sub>H<sub>20</sub>O<sub>14</sub>

M.Wt

484.36

Solubility

Storage

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Hamamelitannin, a polyphenol extracted from the bark of *Hamamelis virginiana*, is a quorum-sensing (QS) inhibitor. Hamamelitannin increases antibiotic susceptibility of *Staphylococcus aureus* biofilms by affecting peptidoglycan biosynthesis and eDNA release[1][2].

Hamamelitannin displays specific cytotoxic activity against colon cancer cells[3].

[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.**

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