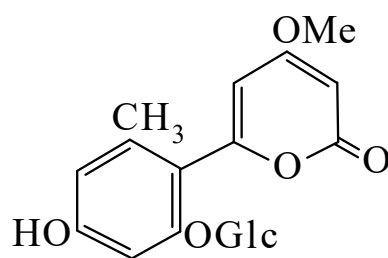




>>Entry Name: Aloenin

Synonym(s): 6-[2-(β-D-Glucopyranosyloxy)-4-hydroxy-6-methylphenyl]-4-methoxy-2*H*-pyran-2-one, 9Cl. Aloearbonaside



CAS Registry Number: 38412-46-3

Molecular Formula: C₁₉H₂₂O₁₀

Molecular Weight: 410.377

Accurate Mass: 410.1213

Percentage Composition: C 55.61%; H 5.40%; O 38.99%

Biological Source: Constit. of *Aloe* spp.

Physical Description: Needles (MeOH or CHCl₃/MeOH)

Melting Point: Mp 204-205°

Optical Rotation: [α]_D²⁵ -26.79 (c, 2.2 in MeOH)

Other Data: Forms a monohydrate, Mp 145-7°

>>Derivative: Penta-Ac

Melting Point: Mp 192-193°

>>Derivative: Me ether

Melting Point: Mp 117-118°

>>Derivative: 4",6"-Ethylidene

Synonym(s): 4",6"-Ethylidenealoenin

CAS Registry Number: 160787-37-1

Molecular Formula: C₂₁H₂₄O₁₀

Molecular Weight: 436.415

Accurate Mass: 436.13695

Percentage Composition: C 57.80%; H 5.54%; O 36.66%

Biological Source: Isol. from *Aloe arborescens*

Other Data: Probable artifact

References:

- Makino, K. *et al.*, *Chem. Pharm. Bull.*, 1973, **21**, 149, (*isol*)
Suga, T. *et al.*, *Chem. Lett.*, 1974, 715, (*struct*)
Hirata, T. *et al.*, *Chem. Lett.*, 1976, 393, (*cryst struct*)
Hirata, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1978, **51**, 842, (*isol, struct*)
Suga, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1978, **51**, 872, (*biosynth*)
Bringmann, G. *et al.*, *Heterocycles*, 1982, **19**, 1449, (*synth*)
Woo, W.S. *et al.*, *CA*, 1995, **122**, 101661j, (*Ethylidenealoenin*)