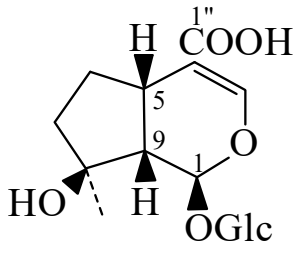
>>**Entry Name: Mussaenosidic acid**



CAS Registry Number: 82451-22-7

Molecular Formula: $C_{16}H_{24}O_{10}$
Molecular Weight: 376.36
Accurate Mass: 376.13695
Percentage Composition: C 51.06%; H 6.43%; O 42.51%
Biological Source: Constit. of *Melampyrum cristatum*
Physical Description: Foam
Optical Rotation: $[\alpha]_D^{20}$ –118 (c, 0.7 in MeOH)

>>**Derivative:** Me ester
Synonym(s): Mussaenoside. Linearoside‡

CAS Registry Number: 64421-27-8
Extra CAS Registry Numbers(s): 73284-85-2

Molecular Formula: $C_{17}H_{26}O_{10}$
Molecular Weight: 390.386
Accurate Mass: 390.1526
Percentage Composition: C 52.30%; H 6.71%; O 40.98%
Biological Source: Isol. from *Mussaenda parviflora, Mussaenda arvense*, *Mussaenda shikokiana* and *Anticharis linearis*
Physical Description: Powder
Optical Rotation: $[\alpha]_D^{30}$ –106 (c, 0.6 in MeOH)
Other Data: Stereochem. of Linearoside not determined

>>**Derivative:** 2'-*O*-β-D-Apiofuranosyl
Synonym(s): Inerminoside A1

CAS Registry Number: 155656-95-4

Molecular Formula: $C_{21}H_{32}O_{14}$
Molecular Weight: 508.475
Accurate Mass: 508.17921
Percentage Composition: C 49.61%; H 6.34%; O 44.05%
Biological Source: Constit. of *Clerodendrum inerme*
Physical Description: Amorph. powder

>>**Derivative:** 2'-*O*-[4-Hydroxybenzoyl-(→5)-β-D-apiofuranosyl]
Synonym(s): Inerminoside C

CAS Registry Number: 160492-62-6

Molecular Formula: $C_{28}H_{36}O_{16}$
Molecular Weight: 628.583
Accurate Mass: 628.20034
Percentage Composition: C 53.50%; H 5.77%; O 40.73%
Biological Source: Constit. of *Clerodendrum inerme*
Physical Description: Amorph. powder

>>**Derivative:** 6'-*O*-(6-Hydroxy-2,6-dimethyl-2,7-octadienoyl)
Synonym(s): 6'-*O*-Menthafoloylmussaenosidic acid

Molecular Formula: $C_{26}H_{38}O_{12}$
Molecular Weight: 542.579
Accurate Mass: 542.23633
Percentage Composition: C 57.56%; H 7.06%; O 35.39%
Biological Source: Constit. of *Veronica bellidioides*

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