



CAS Registry Number: 68406-04-2

Molecular Formula: C₄₅H₇₂O₁₆

Molecular Weight: 869.054

Accurate Mass: 868.48204

Percentage Composition: C 62.19%; H 8.35%; O 29.46%

Biological Source: Constit. of *Dioscorea floribunda*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 255-258°

Optical Rotation: [α]_D -93.6 (Py)

>>Derivative: 3-O-[3-Methylglutaryl-($\rightarrow$ 4)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 4)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)- β -D-glucopyranoside]

Synonym(s): Deltofolin

CAS Registry Number: 72980-49-5

Molecular Formula: C₅₁H₈₀O₁₉

Molecular Weight: 997.182

Accurate Mass: 996.529385

Percentage Composition: C 61.43%; H 8.09%; O 30.48%

Biological Source: From *Dioscorea deltoides*

Physical Description: Amorph.

>>Derivative: 3-O-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 2)-[β -D-glucopyranosyl-(1 $\rightarrow$ 3)]- β -D-glucopyranoside]

Synonym(s): Gracillin

CAS Registry Number: 19083-00-2

Molecular Formula: C₄₅H₇₂O₁₇

Molecular Weight: 885.054

Accurate Mass: 884.476955

Percentage Composition: C 61.07%; H 8.20%; O 30.73%

Biological Source: Constit. of *Dioscorea gracillima*

Biological Use/Importance: Shows cardiovascular and antitumour activity

Physical Description: Cryst.

Melting Point: Mp 290-293°

Optical Rotation: [α]_D¹⁴ -88 (Py)

>>Derivative: 3-O-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 2)-[β -D-glucopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranoside]

Synonym(s): Deltonin. Trilloside A

CAS Registry Number: 55659-75-1

Molecular Formula: C₄₅H₇₂O₁₇

Molecular Weight: 885.054

Accurate Mass: 884.476955

Percentage Composition: C 61.07%; H 8.20%; O 30.73%

Biological Source: From *Dioscorea deltoides*, *Ophiopogon planiscapus*, *Allium vineale* and *Trillium kamschatcense*

Biological Use/Importance: Molluscicidal agent

Physical Description: Cryst.

Melting Point: Mp 196-200°

Optical Rotation: [α]_D²⁶ -2.2 (c, 1.3 in MeOH)

Calculated Log P Data: Log P 0.34 (uncertain value) (calc)

Other Data: Deltonin and Trilloside A assumed to be identical but not compared

>>Derivative: 3-O-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 2)-[β -D-glucopyranosyl-(1 $\rightarrow$ 6)]- β -D-glucopyranoside]

CAS Registry Number: 244160-59-6

Molecular Formula: C₄₅H₇₂O₁₇

Molecular Weight: 885.054

Accurate Mass: 884.476955

Percentage Composition: C 61.07%; H 8.20%; O 30.73%

Biological Source: Constit. of *Lilium candidum* bulbs

Physical Description: Amorph. solid

Optical Rotation: [α]_D²⁹ -89.6 (c, 0.27 in MeOH)