



Molecular Formula: C₄₇H₇₂O₂₁
Molecular Weight: 973.073
Accurate Mass: 972.456615
Percentage Composition: C 58.01%; H 7.46%; O 34.53%
Biological Source: Glycoside from leaves and fruit of *Cucumis sativa* (cucumber)
Melting Point: Mp 158-160°
Other Data: Posn. of glycosidation not detd.

>> **Derivative:** 2-Ac, 16-O-β-D-glucopyranoside
Synonym(s): Datiscoside G

Molecular Formula: C₃₈H₅₆O₁₃
Molecular Weight: 720.853
Accurate Mass: 720.372095
Percentage Composition: C 63.32%; H 7.83%; O 28.85%
Biological Source: Isol. from *Datisca glomerata*
Use/Importance: Cytotoxic
Physical Description: Cryst. (Et₂O)
Melting Point: Mp 154-156°
Other Data: Registered in CA as lacking the 2-Ac group

>> **Derivative:** 25-Ac
Synonym(s): Cucurbitacin B. Amarin‡

CAS Registry Number: 6199-67-3

Molecular Formula: C₃₂H₄₆O₈
Molecular Weight: 558.711
Accurate Mass: 558.31927
Percentage Composition: C 68.79%; H 8.30%; O 22.91%
Biological Source: Bitter principle of fruits of Cucurbitaceae, e.g. *Anagallis arvensis*, *Luffa acutangula*, *Luffa graveolens*, *Luffa echinata*, *Echinocystis fabacea*. Also in *Iberis* spp. (Cruciferae)
Physical Description: Cryst. (EtOH)
Melting Point: Mp 180-182°
Optical Rotation: [α]_D²⁵ +87.5 (96% EtOH)
UV: [neutral] λ_{max} 229 (ε 29500) (MeOH) (Berdy) [neutral] λ_{max} 229 (ε 13300) (EtOH) (Berdy)

>> **Derivative:** 25-Ac, 2-O-β-D-glucopyranoside
Synonym(s): Arvenin I

CAS Registry Number: 65247-27-0

Molecular Formula: C₃₈H₅₆O₁₃
Molecular Weight: 720.853
Accurate Mass: 720.372095
Percentage Composition: C 63.32%; H 7.83%; O 28.85%
Biological Source: Isol. from *Anagallis arvensis*
Physical Description: Cryst.
Melting Point: Mp 141-146°
Optical Rotation: [α]_D²⁰ +40.6 (EtOH)

>> **Derivative:** 16,25-Di-Ac
Synonym(s): Fabacein

CAS Registry Number: 37710-13-7

Molecular Formula: C₃₄H₄₈O₉
Molecular Weight: 600.748
Accurate Mass: 600.329835
Percentage Composition: C 67.98%; H 8.05%; O 23.97%
Biological Source: Constit. of *Echinocystis fabacea*
Use/Importance: Antineoplastic agent
Physical Description: Cryst.
Melting Point: Mp 198-201°