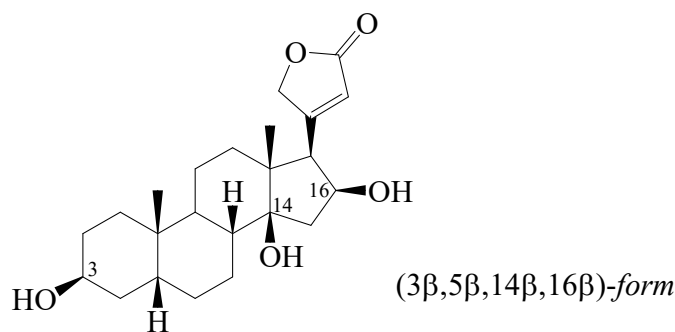




>>Entry Name: 3,14,16-Trihydroxycard-20(22)-enolide



Molecular Formula: C₂₃H₃₄O₅

Molecular Weight: 390.519

Accurate Mass: 390.240625

Percentage Composition: C 70.74%; H 8.78%; O 20.48%

>>Variant: (3β,5β,14β,16β)-form

Synonym(s): Gitoxigenin. Bigitaligenin. 16β-Hydroxydigitoxin. Anhydrogitaligenin

CAS Registry Number: 545-26-6

Molecular Formula: C₂₃H₃₄O₅

Molecular Weight: 390.519

Accurate Mass: 390.240625

Percentage Composition: C 70.74%; H 8.78%; O 20.48%

Biological Source: Isol. from *Digitalis* spp., *Nerium oleander* and other plants

Use/Importance: Antineoplastic agent

Physical Description: Cryst. (MeOH)

Melting Point: Mp 220-225 dec.°

Optical Rotation: [α]_D¹⁸+32.6 (c, 0.641 in MeOH)

Calculated Log P Data: Log P 0.4 (uncertain value) (calc)

UV: [acid] λ_{max} 310 (); 485 (); 520 () (CC.H₂SO₄) (Berdy)

Fluka: 48940

Rare Chemicals Library: S46195-4

Sigma: G4635

>>Derivative: 3-O-Fucoside

Molecular Formula: C₂₉H₄₄O₉

Molecular Weight: 536.661

Accurate Mass: 536.298535

Percentage Composition: C 64.90%; H 8.26%; O 26.83%

Biological Source: Identified in leaves of *Digitalis grandiflora* and *Digitalis lanata*

Physical Description: No phys. props. reported

Other Data: Abs. config. of sugar residue not detd.

>>Derivative: 3-O-α-L-Rhamnopyranoside

Synonym(s): Rhodexin B

CAS Registry Number: 50906-58-6

Molecular Formula: C₂₉H₄₄O₉

Molecular Weight: 536.661

Accurate Mass: 536.298535

Percentage Composition: C 64.90%; H 8.26%; O 26.83%

Biological Source: Constit. of *Rhodea japonica*

Use/Importance: Antineoplastic agent

Physical Description: Cryst. (MeOH)

Melting Point: Mp 262 dec.°

Optical Rotation: [α]_D²⁵−39.5 (EtOH)

Calculated Log P Data: Log P −0.69 (uncertain value) (calc)