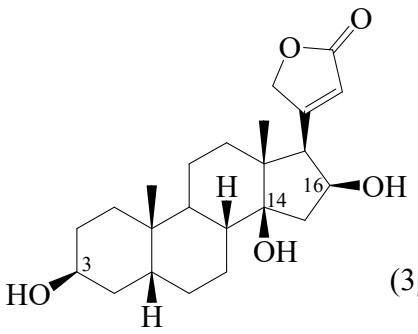
>>**Entry Name: 3,14,16-Trihydroxycard-20(22)-enolide**



(3β,5β,14β,16β)-*form*

Molecular Formula: $C_{23}H_{34}O_5$
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: $C_{23}H_{34}O_5$
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: $[\alpha]_D^{18}$+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 () ($CC.H_2SO_4$) (Berdy)

Fluka: 48940
Rare Chemicals Library: S46195-4
Sigma: G4635

>>**Derivative:** 3-*O*-Fucoside

Molecular Formula: $C_{29}H_{44}O_9$
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: $C_{29}H_{44}O_9$
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: $[\alpha]_D^{25}$–39.5 (EtOH)
Calculated Log P Data: Log P –0.69 (uncertain value) (calc)

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