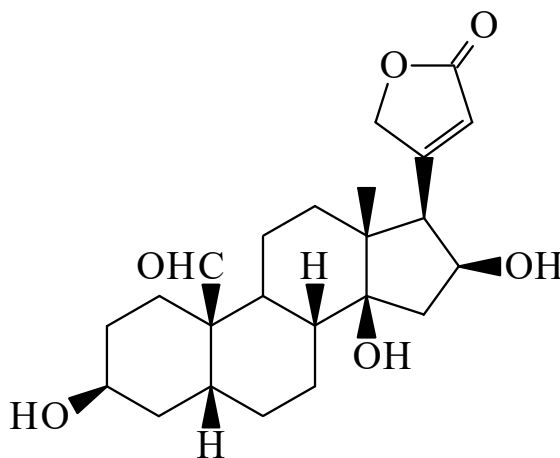




>>Entry Name: 3,14,16-Trihydroxy-19-oxo-5 $\beta$ H-card-20(22)-enolide



**Molecular Formula:** C<sub>23</sub>H<sub>32</sub>O<sub>6</sub>

**Molecular Weight:** 404.502

**Accurate Mass:** 404.21989

**Percentage Composition:** C 68.29%; H 7.97%; O 23.73%

>>Variant: (3 $\beta$ ,5 $\beta$ ,14 $\beta$ ,16 $\beta$ )-form

**Synonym(s):** Adonitoxigenin. 19-Oxogitogenin

**Molecular Formula:** C<sub>23</sub>H<sub>32</sub>O<sub>6</sub>

**Molecular Weight:** 404.502

**Accurate Mass:** 404.21989

**Percentage Composition:** C 68.29%; H 7.97%; O 23.73%

**Physical Description:** Cryst. (EtOH)

**Melting Point:** Mp 172-178°

>>Derivative: 3-O- $\alpha$ -L-Rhamnopyranoside

**Synonym(s):** Adonitoxin

**CAS Registry Number:** 17651-61-5

**Molecular Formula:** C<sub>29</sub>H<sub>42</sub>O<sub>10</sub>

**Molecular Weight:** 550.645

**Accurate Mass:** 550.2778

**Percentage Composition:** C 63.26%; H 7.69%; O 29.06%

**Biological Source:** Constit. of *Adonis vernalis*

**Physical Description:** Cryst. (CHCl<sub>3</sub>/MeOH/Et<sub>2</sub>O)

**Melting Point:** Mp 262-265 dec.°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> -27 (MeOH)

**Hazard & Toxicity:** Highly toxic, LD<sub>50</sub> 0.191 mg/kg (cat)

>>Derivative: 3-O-(3-O-Acetyl- $\alpha$ -L-rhamnopyranoside)

**Synonym(s):** Acetyladonitoxin

**Molecular Formula:** C<sub>31</sub>H<sub>44</sub>O<sub>11</sub>

**Molecular Weight:** 592.682

**Accurate Mass:** 592.288365

**Percentage Composition:** C 62.82%; H 7.48%; O 29.69%

**Biological Source:** Constit. of *Adonis vernalis*

**Physical Description:** Cryst. (MeOH)

**Melting Point:** Mp 213-219 dec.°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>23</sup> -19.9 (MeOH)