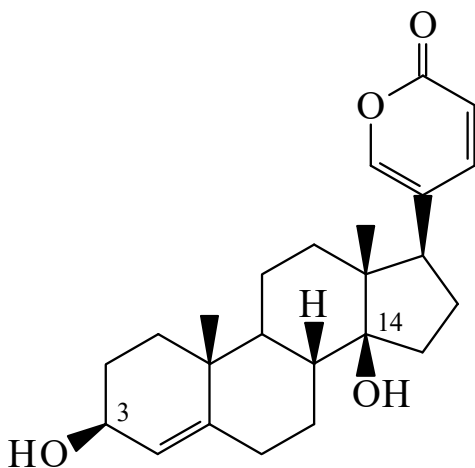




>>Entry Name: 3,14-Dihydroxybufa-4,20,22-trienolide



Molecular Formula: C₂₄H₃₂O₄

Molecular Weight: 384.514

Accurate Mass: 384.23006

Percentage Composition: C 74.97%; H 8.39%; O 16.64%

>>Variant: (3β,14β)-form

Synonym(s): Scillarenin. β-Scillarenin

CAS Registry Number: 465-22-5

Molecular Formula: C₂₄H₃₂O₄

Molecular Weight: 384.514

Accurate Mass: 384.23006

Percentage Composition: C 74.97%; H 8.39%; O 16.64%

Biological Source: Constit. of *Scilla maritima*

Biological Use/Importance: Antineoplastic agent

Physical Description: Prisms (EtOAc/hexane)

Melting Point: Mp 243-245°

Optical Rotation: $[\alpha]_D^{25} -20.1$ (c, 0.7 in MeOH)

Calculated Log P Data: Log P 2.76 (uncertain value) (calc)

UV: [neutral] $\lambda_{\max}$ 300 (ε 5260) (EtOH) (Berdy)

Other Data: Props. refer to a sample prepd. by careful enzymic hydrol. of Proscillaridin (Tanase *et al*) which is the normal natural form of Scillarenin

Hazard & Toxicity: LD₅₀ (cat, ivn) 0.16 mg/kg

>>Derivative: 3-O-β-D-Glucopyranoside

CAS Registry Number: 14904-71-3

Molecular Formula: C₃₀H₄₂O₉

Molecular Weight: 546.656

Accurate Mass: 546.282885

Percentage Composition: C 65.92%; H 7.74%; O 26.34%

Biological Source: Constit. of *Scilla maritima*

Physical Description: Cryst. (EtOH)

Melting Point: Mp 208-212°

Optical Rotation: $[\alpha]_D^{20} -54.2$ (c, 0.5 in MeOH)

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

Synonym(s): Proscillaridin A. **Proscillaridin**, BAN, INN, JAN, USAN. Cardion. Prostosin. Desglucotransvaalin. Scillacrist. Many other names

CAS Registry Number: 466-06-8

Molecular Formula: C₃₀H₄₂O₈

Molecular Weight: 530.657

Accurate Mass: 530.28797

Percentage Composition: C 67.90%; H 7.98%; O 24.12%

Biological Source: Constit. of *Scilla maritima*

Biological Use/Importance: Cardiotonic agent

Physical Description: Cryst. (MeOH)

Melting Point: Mp 219-222°