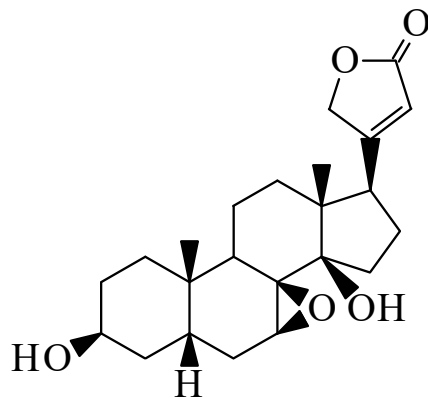




>>Entry Name: Tanghinigenin

Synonym(s): 7 β ,8 β -Epoxy-3 β ,14 β -dihydroxy-5 β -card-20(22)-enolide



CAS Registry Number: 6875-16-7

Molecular Formula: C₂₃H₃₂O₅

Molecular Weight: 388.503

Accurate Mass: 388.224975

Percentage Composition: C 71.11%; H 8.30%; O 20.59%

Physical Description: Prisms (Me₂CO/petrol)

Melting Point: Mp 187-188°

Optical Rotation: $[\alpha]_D^{25} +14.1$ (c, 1.138 in CHCl₃)

Hazard & Toxicity: Toxic, LD₅₀ 1.0 mg/Kg (cat)

>>Derivative: 3-*O*-(6-Deoxy-3-*O*-methyl- α -L-glucopyranoside)

Synonym(s): Deacetyltanghinin. Desacetyltanghinin

Molecular Formula: C₃₀H₄₄O₉

Molecular Weight: 548.672

Accurate Mass: 548.298535

Percentage Composition: C 65.67%; H 8.08%; O 26.24%

Biological Source: Isol. from *Tanghinia venenifera*, *Cerbera odollam* and *Cerbera manghas*

Physical Description: Prisms (MeOH/Et₂O)

Melting Point: Mp 217-0 and 238-241° (double Mp)

Optical Rotation: $[\alpha]_D^{20} -58$ (MeOH)

>>Derivative: 3-*O*-(2-*O*-Acetyl-6-deoxy-3-*O*-methyl- α -L-glucopyranoside)

Synonym(s): Tanghinin

CAS Registry Number: 25390-16-3

Molecular Formula: C₃₂H₄₆O₁₀

Molecular Weight: 590.709

Accurate Mass: 590.3091

Percentage Composition: C 65.07%; H 7.85%; O 27.09%

Biological Source: Constit. of *Tanghinia venenifera*

Physical Description: Cryst. (EtOAc/hexane)

Melting Point: Mp 128-131°. Mp 187-197 dec.°

Optical Rotation: $[\alpha]_D -79$ (EtOH)

Rare Chemicals Library: S96197-3