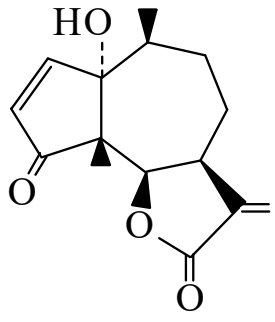
>>**Entry Name: 1-Hydroxy-4-oxo-2,11(13)-pseudoguaiadien-12,6-olide**



Molecular Formula: $C_{15}H_{18}O_4$
Molecular Weight: 262.305
Accurate Mass: 262.12051
Percentage Composition: C 68.69%; H 6.92%; O 24.40%
Use/Importance: Adrenoceptor blocking agent. Antineoplastic agent, CNS depressant. Possesses antimalarial and antiauxin activity
Calculated Log P Data: Log P 0.13 (calc)

>>**Variant:** (1α,5β,6β,10β)-form
Synonym(s): Parthenin

CAS Registry Number: 508-59-8

Molecular Formula: $C_{15}H_{18}O_4$
Molecular Weight: 262.305
Accurate Mass: 262.12051
Percentage Composition: C 68.69%; H 6.92%; O 24.40%
Biological Source: Bitter principle of *Parthenium hysterophorus* and *Iva nevadensis*
Physical Description: Cryst. (H_2O)
Melting Point: Mp 163-166°
Optical Rotation: $[\alpha]_D^{25}$+7.02 (c, 2.71 in $CHCl_3$)
Solubility: BERDY SOL: Sol. MeOH, $CHCl_3$; poorly sol. H_2O
UV: [neutral] λ_{max} 215 (ε 13100); 340 (ε 20) (MeOH) (Berdy)
Other Data: Pharmacol. active isomer
Hazard & Toxicity: Can cause contact dermatitis. LD_{50} (rat, ipr) 42 mg/kg

>>**Derivative:** 11,13-Dihydro
Synonym(s): 1-Hydroxy-4-oxo-2-pseudoguaien-12,6-olide. **Dihydroparthenin**

Molecular Formula: $C_{15}H_{20}O_4$
Molecular Weight: 264.321
Accurate Mass: 264.13616
Percentage Composition: C 68.16%; H 7.63%; O 24.21%
Biological Source: Constit. of *Parthenium hysterophorus*
Physical Description: Cryst.
Melting Point: Mp 145°

>>**Derivative:** 1,2-Dihydro
Synonym(s): 1-Hydroxy-4-oxo-11(13)-pseudoguaien-12,6-olide. **Coronopilin.** 1,2-Dihydroparthenin

CAS Registry Number: 2571-81-5

Molecular Formula: $C_{15}H_{20}O_4$
Molecular Weight: 264.321
Accurate Mass: 264.13616
Percentage Composition: C 68.16%; H 7.63%; O 24.21%
Biological Source: Constit. of *Parthenium incanum, Ambrosia psilostachya, Ambrosia artemisiifolia, Iva nevadensis* and *Iva acerosa*
Use/Importance: Antineoplastic agent
Physical Description: Cryst. (Me_2CO/diisopropyl ether)
Melting Point: Mp 177-178°
Optical Rotation: $[\alpha]_D^{21}$ –30.2 (c, 4.2 in EtOH)
Calculated Log P Data: Log P 0.52 (calc)
UV: [neutral] λ_{max} 213 (ε 9800); 290 (ε 29) (EtOH) (Berdy)