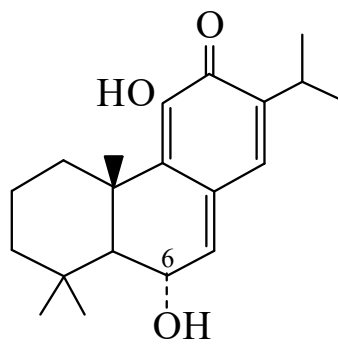




>>Entry Name: 6,11-Dihydroxy-7,9(11),13-abietatrien-12-one



**Molecular Formula:** C<sub>20</sub>H<sub>28</sub>O<sub>3</sub>

**Molecular Weight:** 316.439

**Accurate Mass:** 316.203845

**Percentage Composition:** C 75.91%; H 8.92%; O 15.17%

>>Variant: 6 $\alpha$ -form

**Synonym(s):** Taxodone. NSC 122420

**CAS Registry Number:** 19039-02-2

**Molecular Formula:** C<sub>20</sub>H<sub>28</sub>O<sub>3</sub>

**Molecular Weight:** 316.439

**Accurate Mass:** 316.203845

**Percentage Composition:** C 75.91%; H 8.92%; O 15.17%

**Biological Source:** Isol. from *Taxodium distichum*

**Use/Importance:** Shows antineoplastic activity

**Physical Description:** Yellow plates (Et<sub>2</sub>O/petrol)

**Melting Point:** Mp 164-165°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>25</sup>+50 (c, 2.5 in CHCl<sub>3</sub>)

**Solubility:** BERDY SOL: Sol. MeOH, Et<sub>2</sub>O; poorly sol. H<sub>2</sub>O, hexane

**Calculated Log P Data:** Log P 4.03 (calc)

**UV:** [acid]  $\lambda_{\max}$  (no solvent specified) (Derep) [neutral]  $\lambda_{\max}$  316 ( $\epsilon$  20000) (MeOH) (Derep) [neutral]  $\lambda_{\max}$  316 ( $\epsilon$  20000) (MeOH) (Berdy)

>>Derivative: 6-Ketone

**Synonym(s):** 11-Hydroxy-7,9(11),13-abietatriene-6,12-dione. **Taxodione.** NSC 122419

**CAS Registry Number:** 19026-31-4

**Molecular Formula:** C<sub>20</sub>H<sub>26</sub>O<sub>3</sub>

**Molecular Weight:** 314.424

**Accurate Mass:** 314.188195

**Percentage Composition:** C 76.40%; H 8.33%; O 15.27%

**Biological Source:** Isol. from *Taxodium distichum*

**Use/Importance:** Shows antineoplastic activity

**Physical Description:** Golden plates (MeOH)

**Melting Point:** Mp 115-116°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>25</sup>+56 (c, 1 in CHCl<sub>3</sub>)

**Solubility:** BERDY SOL: Sol. MeOH, Et<sub>2</sub>O; poorly sol. H<sub>2</sub>O, hexane

**Calculated Log P Data:** Log P 3.78 (calc)

**UV:** [base]  $\lambda_{\max}$  265 ( $\epsilon$  ); 295 ( $\epsilon$  ); 485 ( $\epsilon$  ) (MeOH/NH<sub>3</sub>) (Derep) [neutral]  $\lambda_{\max}$  320 ( $\epsilon$  25000); 332 ( $\epsilon$  26000); 400 ( $\epsilon$  2000) (MeOH) (Derep) [neutral]  $\lambda_{\max}$  224 ( $\epsilon$  10471); 320 ( $\epsilon$  25000); 324 ( $\epsilon$  19500); 332 ( $\epsilon$  26000); 333 ( $\epsilon$  19950); 400 ( $\epsilon$  2000); 405 ( $\epsilon$  251) (MeOH) (Berdy)

#### References:

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