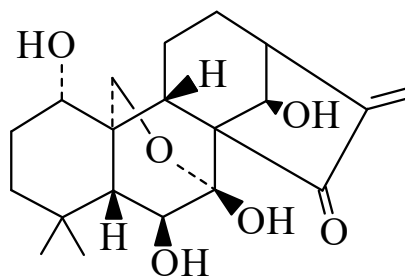




>>Entry Name: 7,20-Epoxy-1,6,7,14-tetrahydroxy-16-kauren-15-one



Related CAS Registry Numbers(s): 18288-82-9 28957-10-0

Molecular Formula: C<sub>20</sub>H<sub>28</sub>O<sub>6</sub>

Molecular Weight: 364.438

Accurate Mass: 364.18859

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

>>Variant: (*ent*-1 $\beta$ ,6 $\alpha$ ,14 $\alpha$ )-form

Synonym(s): Isodonol. Oridonin. Rubescensin. Rubescensin A

CAS Registry Number: 28957-04-2

Molecular Formula: C<sub>20</sub>H<sub>28</sub>O<sub>6</sub>

Molecular Weight: 364.438

Accurate Mass: 364.18859

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

Biological Source: Constit. of *Isodon trichocarpus*, *Isodon japonicus* and *Rabdosia* spp.

Use/Importance: Shows activity against gram-positive bacteria and against *Sarcina lutea*; also shows antineoplastic activity against Ehrlich ascites carcinoma. Insect growth inhibitor

Physical Description: Cryst. (MeOH)

Development Status: Has undergone clin. testing in China

Melting Point: Mp 248-249°

Optical Rotation:  $[\alpha]_D^{24}$  -47 (c, 0.1 in EtOH)

Calculated Log P Data: Log P -1.72 (uncertain value) (calc)

Hazard & Toxicity: LD<sub>50</sub> (mus, ipr) 35 mg/kg. Mutagenic props.

>>Derivative: 1-Ac

Synonym(s): *ent*-1 $\beta$ -Acetoxy-7,20-epoxy-6 $\alpha$ ,7,14 $\alpha$ -trihydroxy-16-kauren-15-one. Lasiokaurin. Lasiodin‡

CAS Registry Number: 28957-08-6

Molecular Formula: C<sub>22</sub>H<sub>30</sub>O<sub>7</sub>

Molecular Weight: 406.475

Accurate Mass: 406.199155

Percentage Composition: C 65.01%; H 7.44%; O 27.55%

Biological Source: Isol. from *Isodon lasiocarpus*, *Rabdosia lasiocarpa*, *Rabdosia japonica* and *Rabdosia macrophylla*

Use/Importance: Shows antibacterial activity, esp. against *Sarcina lutea*; also shows antineoplastic activity against Ehrlich ascites carcinoma

Physical Description: Cryst. (MeOH)

Melting Point: Mp 228-229°

Optical Rotation:  $[\alpha]_D^{17}$  -94 (c, 1 in Py)

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

Calculated Log P Data: Log P -0.77 (uncertain value) (calc)

UV: [neutral]  $\lambda_{\max}$  238 ( $\epsilon$  8000) (MeOH) (Berdy) [neutral]  $\lambda_{\max}$  203 ( $\epsilon$  4100); 238 ( $\epsilon$  8100) (EtOH) (Berdy)

Hazard & Toxicity: BERDY HAZD : LD<sub>50</sub> (mus, ipr) 47.5 mg/kg

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