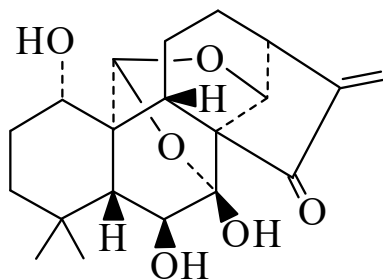




**>>Entry Name: Ponicidin**

**Synonym(s):** *ent*-7,20:14,20-Diepoxy-1 $\beta$ ,6 $\alpha$ ,7-trihydroxy-16-kauren-15-one. Rubescensin B



**CAS Registry Number:** 52617-37-5

**Molecular Formula:** C<sub>20</sub>H<sub>26</sub>O<sub>6</sub>

**Molecular Weight:** 362.422

**Accurate Mass:** 362.17294

**Percentage Composition:** C 66.28%; H 7.23%; O 26.49%

**Biological Source:** Bitter principle from *Isodon japonicus*, *Rabdosia rubescens* and *Rabdosia rosthornii*

**Biological Use/Importance:** Antineoplastic agent

**Physical Description:** Cryst. (MeOH)

**Development Status:** Has undergone clinical testing in China

**Melting Point:** Mp 238-241 dec.°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>17</sup> -118 (c, 0.1 in Py)

**Calculated Log P Data:** Log P -1.42 (uncertain value) (calc)

**>>Derivative:** 16 $\beta$ ,17-Dihydro

**Synonym(s):** *ent*-7,20:14,20-Diepoxy-1 $\beta$ ,6 $\alpha$ ,7-trihydroxy-15-kauranone. **Xerophilusin C**

**CAS Registry Number:** 272459-38-8

**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 xerophilus*

**Physical Description:** Cryst.

**>>Derivative:** 1-Deoxy

**Synonym(s):** *ent*-7,20:14,20-Diepoxy-6 $\alpha$ ,7-dihydroxy-16-kauren-15-one. **Xerophilusin B**

**CAS Registry Number:** 167894-15-7

**Molecular Formula:** C<sub>20</sub>H<sub>26</sub>O<sub>5</sub>

**Molecular Weight:** 346.422

**Accurate Mass:** 346.178025

**Percentage Composition:** C 69.34%; H 7.56%; O 23.09%

**Biological Source:** Constit. of *Isodon xerophilus*

**Physical Description:** Needles (Me<sub>2</sub>CO)

**Melting Point:** Mp 173-174°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>22</sup> -150 (c, 0.46 in Py)

**UV:** [neutral]  $\lambda_{\max}$  231 (log  $\epsilon$  3.78) (MeOH)

**>>Derivative:** 1-Deoxy, 11 $\beta$ -hydroxy

**Synonym(s):** *ent*-7,20:14,20-Diepoxy-6 $\alpha$ ,7,11 $\alpha$ -trihydroxy-16-kauren-15-one. **Macrocalin B**

**CAS Registry Number:** 93781-75-0

**Molecular Formula:** C<sub>20</sub>H<sub>26</sub>O<sub>6</sub>

**Molecular Weight:** 362.422

**Accurate Mass:** 362.17294

**Percentage Composition:** C 66.28%; H 7.23%; O 26.49%

**Biological Source:** Isol. from leaves of *Rabdosia macrocalyx*

**Solubility:** BERDY SOL: Sol. MeOH, CHCl<sub>3</sub>; poorly sol. H<sub>2</sub>O, hexane

**UV:** [neutral]  $\lambda_{\max}$  238 ( $\epsilon$  5933) (EtOH) (Berdy)