



**Synonym(s): Angoroside A**

**CAS Registry Number:** 111316-35-9  
**Type of Compound Code(s):** AF9300 VE9300  
**Molecular Formula:** C<sub>34</sub>H<sub>44</sub>O<sub>19</sub>  
**Molecular Weight:** 756.71  
**Accurate Mass:** 756.247685  
**Percentage Composition:** C 53.97%; H 5.86%; O 40.17%  
**Biological Source:** Isol. from roots of *Scrophularia scopolii* and *Verbascum spinosum*  
**Use/Importance:** Inhibitor of gram-positive bacteria  
**Optical Rotation:**  $[\alpha]_{\text{D}}^{20} -68.75$  (c, 0.32 in MeOH)  
**Solubility:** BERDY SOL: Sol. MeOH, butanol; fairly sol. H<sub>2</sub>O; poorly sol. EtOAc, hexane  
**Other Data:** Some nmr assignments revised in 1999

>>Derivative: 1-*O*-[ $\alpha$ -L-Rhamnopyranosyl-(1→3)-[3-hydroxy-4-*O*- $\beta$ -D-xylopyranosyloxy-*E*-cinnamoyl-(→4)]- $\beta$ -D-glucopyranoside]

**Synonym(s): Trichosanthoside A**

**Type of Compound Code(s):** VE9300  
**Molecular Formula:** C<sub>34</sub>H<sub>44</sub>O<sub>19</sub>  
**Molecular Weight:** 756.71  
**Accurate Mass:** 756.247685  
**Percentage Composition:** C 53.97%; H 5.86%; O 40.17%  
**Biological Source:** Constit. of *Globularia trichosantha*  
**Optical Rotation:**  $[\alpha]_{\text{D}} -110$  (c, 0.45 in H<sub>2</sub>O)  
**UV:** [neutral]  $\lambda_{\text{max}}$  220 (); 233 (sh) (); 248 (sh) (); 290 (); 334 () (MeOH)

>>Derivative: 1-*O*-[ $\alpha$ -L-Rhamnopyranosyl-(1→2)- $\alpha$ -L-rhamnopyranosyl-(1→3)-[4-hydroxy-3-methoxy-*E*-cinnamoyl-(→4)]- $\beta$ -D-glucopyranoside]

**Synonym(s): Phlinoside E**

**CAS Registry Number:** 137578-58-6  
**Type of Compound Code(s):** VG0060  
**Molecular Formula:** C<sub>36</sub>H<sub>48</sub>O<sub>19</sub>  
**Molecular Weight:** 784.764  
**Accurate Mass:** 784.278985  
**Percentage Composition:** C 55.10%; H 6.16%; O 38.74%  
**Biological Source:** Constit. of *Phlomis linearis*

>>Derivative: 1-*O*-[ $\beta$ -L-Rhamnopyranosyl-(1→2)- $\alpha$ -L-rhamnopyranosyl-(1→3)-[3,4-dihydroxy-*E*-cinnamoyl-(→4)]- $\beta$ -D-glucopyranoside]

**Synonym(s): Phlinoside C**

**CAS Registry Number:** 128988-15-8  
**Type of Compound Code(s):** VG0060  
**Molecular Formula:** C<sub>35</sub>H<sub>46</sub>O<sub>19</sub>  
**Molecular Weight:** 770.737  
**Accurate Mass:** 770.263335  
**Percentage Composition:** C 54.54%; H 6.02%; O 39.44%  
**Biological Source:** Constit. of *Phlomis linearis*  
**Physical Description:** Amorph.  
**Optical Rotation:**  $[\alpha]_{\text{D}}^{20} -75.7$  (c, 0.46 in MeOH)

>>Derivative: 1-*O*-[ $\alpha$ -L-Rhamnopyranosyl-(1→4)- $\alpha$ -L-rhamnopyranosyl-(1→3)-[3,4-dihydroxy-*E*-cinnamoyl-(→4)]- $\beta$ -D-glucopyranoside]

**Synonym(s): Ligupurpuroside A**

**CAS Registry Number:** 147396-01-8  
**Type of Compound Code(s):** VG0060  
**Molecular Formula:** C<sub>35</sub>H<sub>46</sub>O<sub>19</sub>  
**Molecular Weight:** 770.737  
**Accurate Mass:** 770.263335  
**Percentage Composition:** C 54.54%; H 6.02%; O 39.44%  
**Biological Source:** Constit. of *Ligustrum purpurascens*