



**CAS Registry Number:** 155899-91-5  
**Type of Compound Code(s):** VG0060  
**Molecular Formula:** C<sub>30</sub>H<sub>38</sub>O<sub>15</sub>  
**Molecular Weight:** 638.621  
**Accurate Mass:** 638.221075  
**Percentage Composition:** C 56.42%; H 6.00%; O 37.58%  
**Biological Source:** Constit. of *Pedicularis plicata*

>>>**Derivative:** 1-*O*-[α-L-Rhamnopyranosyl-(1→3)-[4-hydroxy-3-methoxycinnamoyl-(→6)]-β-D-glucopyranoside]  
**Synonym(s):** Plantainoside C

**CAS Registry Number:** 136083-86-8  
**Type of Compound Code(s):** VG0060 VE9200  
**Molecular Formula:** C<sub>30</sub>H<sub>38</sub>O<sub>15</sub>  
**Molecular Weight:** 638.621  
**Accurate Mass:** 638.221075  
**Percentage Composition:** C 56.42%; H 6.00%; O 37.58%  
**Biological Source:** Constit. of *Plantago asiatica* and *Buddleja davidii*  
**Optical Rotation:** [α]<sub>D</sub><sup>23</sup> -238.1 (c, 0.07 in MeOH)

>>>**Derivative:** 1-*O*-[α-L-Rhamnopyranosyl-(1→6)-β-D-glucopyranoside]  
**Synonym(s):** Forsythoside E

**CAS Registry Number:** 93675-88-8  
**Type of Compound Code(s):** VG0010  
**Molecular Formula:** C<sub>20</sub>H<sub>30</sub>O<sub>12</sub>  
**Molecular Weight:** 462.45  
**Accurate Mass:** 462.17373  
**Percentage Composition:** C 51.95%; H 6.54%; O 41.52%  
**Biological Source:** Isol. from fruits of *Forsythia suspensa*  
**Physical Description:** Pale yellow amorph. solid  
**Optical Rotation:** [α]<sub>D</sub> -35.3 (c, 0.41 in MeOH)

>>>**Derivative:** 1-*O*-[β-D-Allopyranosyl-(1→3)-[3,4-dihydroxy-*E*-cinnamoyl-(→4)]-β-D-glucopyranoside]  
**Synonym(s):** Plantalloside

**Type of Compound Code(s):** VE9200 VG0060  
**Molecular Formula:** C<sub>29</sub>H<sub>36</sub>O<sub>16</sub>  
**Molecular Weight:** 640.594  
**Accurate Mass:** 640.20034  
**Percentage Composition:** C 54.37%; H 5.66%; O 39.96%  
**Biological Source:** Constit. of *Plantago myosuroides*  
**Physical Description:** Foam + 1½H<sub>2</sub>O  
**Optical Rotation:** [α]<sub>D</sub><sup>21</sup> -51 (c, 0.1 in MeOH)

>>>**Derivative:** 1-*O*-[β-D-Glucopyranosyl-(→3)-3,4-dihydroxy-*E*-cinnamoyl-(→4)]-β-D-glucopyranoside]  
**Synonym(s):** Purpureaside A. Plantamajoside. Plantamoside

**CAS Registry Number:** 104777-68-6  
**Type of Compound Code(s):** VE9200  
**Molecular Formula:** C<sub>29</sub>H<sub>36</sub>O<sub>16</sub>  
**Molecular Weight:** 640.594  
**Accurate Mass:** 640.20034  
**Percentage Composition:** C 54.37%; H 5.66%; O 39.96%  
**Biological Source:** Isol. from the leaves of *Digitalis purpurea*, *Lagotis stolonifera* and *Plantago major*  
**Use/Importance:** Exhibits antibacterial activity against *E. coli*, *Staphylococcus aureus* and several plant pathogenic bacteria. Decreases some human leukocyte functions  
**Physical Description:** Amorph. powder  
**Optical Rotation:** [α]<sub>D</sub><sup>19</sup> -54.3 (c, 0.8 in MeOH)