



**Optical Rotation:**  $[\alpha]_{\text{D}}^{23} -30.5$  (MeOH)

>>>**Derivative:** 3-*O*-β-D-Glucopyranoside, 28-*O*-[D-apiofuranosyl-(1→3)-β-D-xylopyranosyl-(1→4)-2-*O*-acetyl-α-L-rhamnopyranosyl-(1→2)-α-L-arabinopyranosyl] ester  
**Synonym(s):** Platycodin A

**CAS Registry Number:** 66779-34-8

**Molecular Formula:** C<sub>59</sub>H<sub>94</sub>O<sub>29</sub>

**Molecular Weight:** 1267.374

**Accurate Mass:** 1266.588085

**Percentage Composition:** C 55.91%; H 7.48%; O 36.61%

**Biological Source:** Isol. from *Platycodon grandiflorum*

**Physical Description:** Powder + 1H<sub>2</sub>O

**Melting Point:** Mp 217-220.5 dec.°

**Optical Rotation:**  $[\alpha]_{\text{D}}^{28} -26.6$  (c, 1.7 in MeOH)

>>>**Derivative:** 3-*O*-β-D-Glucopyranoside, 28-*O*-[β-D-apiofuranosyl-(1→3)-β-D-xylopyranosyl-(1→4)-3-*O*-acetyl-α-L-rhamnopyranosyl-(1→2)-α-L-arabinopyranosyl] ester

**Synonym(s):** Platycodin C

**CAS Registry Number:** 66779-35-9

**Molecular Formula:** C<sub>59</sub>H<sub>94</sub>O<sub>29</sub>

**Molecular Weight:** 1267.374

**Accurate Mass:** 1266.588085

**Percentage Composition:** C 55.91%; H 7.48%; O 36.61%

**Biological Source:** Isol. from *Platycodon grandiflorum*

**Physical Description:** Powder

**Melting Point:** Mp 225-227 dec.°

**Optical Rotation:**  $[\alpha]_{\text{D}}^{28} -28.3$  (c, 1.14 in MeOH)

>>>**Derivative:** 3-*O*-[β-D-Glucopyranosyl-(1→3)-β-D-glucopyranoside], 28-*O*-[β-D-apiofuranosyl-(1→3)-β-D-xylopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→2)-α-L-arabinopyranosyl] ester

**Synonym(s):** Platycodin D<sub>2</sub>

**CAS Registry Number:** 66663-90-9

**Molecular Formula:** C<sub>63</sub>H<sub>102</sub>O<sub>33</sub>

**Molecular Weight:** 1387.479

**Accurate Mass:** 1386.630345

**Percentage Composition:** C 54.54%; H 7.41%; O 38.05%

**Biological Source:** Isol. from *Platycodon grandiflorum*

**Melting Point:** Mp 227-235°

**Optical Rotation:**  $[\alpha]_{\text{D}}^{23} -27.9$  (MeOH)

>>>**Derivative:** 3-*O*-[β-D-Glucopyranosyl-(1→6)-β-D-glucopyranoside], 28-*O*-[β-D-apiofuranosyl-(1→3)-β-D-xylopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→2)-α-L-arabinopyranosyl] ester

**Synonym(s):** Platycodin D<sub>3</sub>

**CAS Registry Number:** 67884-03-1

**Molecular Formula:** C<sub>63</sub>H<sub>102</sub>O<sub>33</sub>

**Molecular Weight:** 1387.479

**Accurate Mass:** 1386.630345

**Percentage Composition:** C 54.54%; H 7.41%; O 38.05%

**Biological Source:** Isol. from *Platycodon grandiflorum*

**Melting Point:** Mp 218-225°

**Optical Rotation:**  $[\alpha]_{\text{D}}^{23} -24.3$  (MeOH)