



**Accurate Mass:** 463.12404  
**Percentage Composition:** C 57.02%; H 5.00%; O 37.98%  
**Biological Source:** Isol. from various plant spp.  
**Physical Description:** Dark red-brown needles + 1H<sub>2</sub>O with green reflex (as chloride)

>>>**Derivative:** 3-*O*-β-D-Galactopyranoside, 5-*O*-β-D-glucopyranoside  
**Synonym(s):** Peonidin 3-galactoside 5-glucoside

**Molecular Formula:** C<sub>28</sub>H<sub>33</sub>O<sub>16</sub><sup>(+)</sup>  
**Molecular Weight:** 625.559  
**Accurate Mass:** 625.176865  
**Percentage Composition:** C 53.76%; H 5.32%; O 40.92%  
**Biological Source:** Constit. of *Lathyrus odorata*

>>>**Derivative:** 3-*O*-β-D-Glucopyranoside  
**Synonym(s):** Oxycoccicyanin. Peonidin 3-glucoside

**CAS Registry Number:** 6906-39-4

**Molecular Formula:** C<sub>22</sub>H<sub>23</sub>O<sub>11</sub><sup>(+)</sup>  
**Molecular Weight:** 463.417  
**Accurate Mass:** 463.12404  
**Percentage Composition:** C 57.02%; H 5.00%; O 37.98%  
**Biological Source:** Isol. from grapes and many other plant spp. Present in red wine  
**Physical Description:** Dark brown needles + 2H<sub>2</sub>O (as chloride)

>>>**Derivative:** 3-*O*-β-D-Glucopyranoside, 5-*O*-(6-*O*-acetyl-β-D-glucopyranoside)

**Molecular Formula:** C<sub>30</sub>H<sub>35</sub>O<sub>17</sub><sup>(+)</sup>  
**Molecular Weight:** 667.596  
**Accurate Mass:** 667.18743  
**Percentage Composition:** C 53.97%; H 5.28%; O 40.74%  
**Biological Source:** Constit. of the flowers of *Pelargonium* spp.

>>>**Derivative:** 3-*O*-(6-*O*-Malonyl-β-D-glucopyranoside), 5-*O*-β-D-glucopyranoside

**CAS Registry Number:** 144525-39-3

**Molecular Formula:** C<sub>31</sub>H<sub>35</sub>O<sub>19</sub><sup>(+)</sup>  
**Molecular Weight:** 711.606  
**Accurate Mass:** 711.17726  
**Percentage Composition:** C 52.32%; H 4.96%; O 42.72%  
**Biological Source:** Found in the Labiatae

>>>**Derivative:** 3-*O*-[4-Hydroxycinnamoyl-(→?)-β-D-glucopyranoside]

**CAS Registry Number:** 71802-54-5

**Molecular Formula:** C<sub>31</sub>H<sub>29</sub>O<sub>13</sub><sup>(+)</sup>  
**Molecular Weight:** 609.562  
**Accurate Mass:** 609.16082  
**Percentage Composition:** C 61.08%; H 4.80%; O 34.12%  
**Biological Source:** Isol. from grapes

>>>**Derivative:** 3-*O*-[4-Hydroxycinnamoyl-(→6)-β-D-glucopyranoside], 5-*O*-β-D-glucopyranoside

**CAS Registry Number:** 51939-65-2

**Molecular Formula:** C<sub>37</sub>H<sub>39</sub>O<sub>18</sub><sup>(+)</sup>  
**Molecular Weight:** 771.704  
**Accurate Mass:** 771.213645  
**Percentage Composition:** C 57.59%; H 5.09%; O 37.32%  
**Biological Source:** Isol. from grapes