



**CAS Registry Number:** 52286-58-5

**Molecular Formula:** C<sub>42</sub>H<sub>72</sub>O<sub>14</sub>

**Molecular Weight:** 801.022

**Accurate Mass:** 800.49221

**Percentage Composition:** C 62.98%; H 9.06%; O 27.96%

**Biological Source:** Constit. of *Panax ginseng*

**Biological Use/Importance:** Shows antiischaemic, immunostimulant and other pharmacol. props. The first pure ginseng constit. to show nearly all the activities of the plant extract

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

**Melting Point:** Mp 197-198°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>30</sup> +7 (c, 1 in MeOH)

>> **Derivative:** 6-*O*-[ $\alpha$ -L-Rhamnopyranosyl-(1→2)- $\beta$ -D-glucopyranoside]

**Synonym(s):** Ginsenoside C. Chikusetsusaponin I. Ginsenoside R<sub>g2</sub>

**CAS Registry Number:** 52286-74-5

**Molecular Formula:** C<sub>42</sub>H<sub>72</sub>O<sub>13</sub>

**Molecular Weight:** 785.023

**Accurate Mass:** 784.497295

**Percentage Composition:** C 64.26%; H 9.24%; O 26.50%

**Biological Source:** Constit. of *Panax ginseng*

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

**Melting Point:** Mp 187-189°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>30</sup> +5.5 (c, 1 in MeOH)

>> **Derivative:** 3-*O*-[ $\beta$ -D-Glucopyranosyl-(1→2)- $\beta$ -D-glucopyranoside], 20-*O*-[ $\beta$ -D-xylopyranosyl-(1→6)- $\beta$ -D-glucopyranoside]

**Synonym(s):** Ginsenoside R<sub>b3</sub>

**CAS Registry Number:** 68406-26-8

**Molecular Formula:** C<sub>53</sub>H<sub>90</sub>O<sub>23</sub>

**Molecular Weight:** 1095.28

**Accurate Mass:** 1094.587295

**Percentage Composition:** C 58.12%; H 8.28%; O 33.60%

**Biological Source:** Constit. of *Panax ginseng*

**Physical Description:** Powder (2-propanol)

**Melting Point:** Mp 193-195°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>28</sup> +19.4 (c, 1 in MeOH)

>> **Derivative:** 6-*O*-[ $\beta$ -D-Xylopyranosyl-(1→2)- $\beta$ -D-glucopyranoside], 20-*O*- $\beta$ -D-glucopyranoside

**Synonym(s):** Notoginsenoside R<sub>1</sub>

**CAS Registry Number:** 80418-24-2

**Molecular Formula:** C<sub>47</sub>H<sub>80</sub>O<sub>18</sub>

**Molecular Weight:** 933.138

**Accurate Mass:** 932.53447

**Percentage Composition:** C 60.50%; H 8.64%; O 30.86%

**Biological Source:** Constit. of roots of *Panax notoginseng*

**Physical Description:** Needles (H<sub>2</sub>O)

**Melting Point:** Mp 215-217°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>25</sup> +15 (c, 1.0 in MeOH)

>> **Derivative:** 6-*O*-[ $\beta$ -D-Xylopyranosyl-(1→2)- $\beta$ -D-glucopyranoside]

**Synonym(s):** Notoginsenoside R<sub>2</sub>

**CAS Registry Number:** 80418-25-3

**Molecular Formula:** C<sub>41</sub>H<sub>70</sub>O<sub>13</sub>

**Molecular Weight:** 770.996

**Accurate Mass:** 770.481645

**Percentage Composition:** C 63.87%; H 9.15%; O 26.98%

**Biological Source:** Constit. of *Panax notoginseng*

**Physical Description:** Powder

**Optical Rotation:** [ $\alpha$ ]