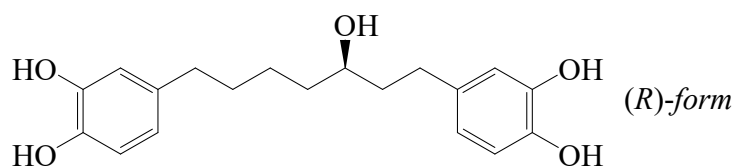




>>Entry Name: 1,7-Bis(3,4-dihydroxyphenyl)-3-heptanol

Synonym(s): Rubranol. 3-Deoxohirsutanonol



**Molecular Formula:** C<sub>19</sub>H<sub>24</sub>O<sub>5</sub>

**Molecular Weight:** 332.396

**Accurate Mass:** 332.162375

**Percentage Composition:** C 68.66%; H 7.28%; O 24.07%

>>Variant: (R)-form

**CAS Registry Number:** 211126-61-3

**Molecular Formula:** C<sub>19</sub>H<sub>24</sub>O<sub>5</sub>

**Molecular Weight:** 332.396

**Accurate Mass:** 332.162375

**Percentage Composition:** C 68.66%; H 7.28%; O 24.07%

**Biological Source:** Constit. of *Pinus flexilis*

**Biological Use/Importance:** Inhibitor of protein kinase C

**Physical Description:** Yellow gum

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> −5 (c, 0.3 in MeOH)

>>Derivative: 3-O- $\beta$ -D-Glucopyranoside

Synonym(s): Rubranoside A

**CAS Registry Number:** 211126-58-8

**Molecular Formula:** C<sub>25</sub>H<sub>34</sub>O<sub>10</sub>

**Molecular Weight:** 494.538

**Accurate Mass:** 494.2152

**Percentage Composition:** C 60.72%; H 6.93%; O 32.35%

**Biological Source:** Constit. of *Alnus japonica*, *Alnus rubra* and *Pinus flexilis*

**Biological Use/Importance:** Inhibitor of protein kinase C

**Physical Description:** Amorph. powder or yellow gum

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> −25 (c, 1 in MeOH (-22))

**UV:** [neutral]  $\lambda_{\max}$  220 (log  $\epsilon$  4.19); 283 (log  $\epsilon$  3.86) (MeOH)

>>Derivative: 3-O-[ $\beta$ -D-Apiofuranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranoside]

Synonym(s): Rubranoside D

**CAS Registry Number:** 211126-60-2

**Molecular Formula:** C<sub>30</sub>H<sub>42</sub>O<sub>14</sub>

**Molecular Weight:** 626.653

**Accurate Mass:** 626.25746

**Percentage Composition:** C 57.50%; H 6.76%; O 35.74%

**Biological Source:** Constit. of *Alnus japonica* and *Alnus rubra*

**Physical Description:** Amorph. powder

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> −52 (c, 1 in MeOH)

**UV:** [neutral]  $\lambda_{\max}$  220 (log  $\epsilon$  4.16); 283 (log  $\epsilon$  3.81) (MeOH)

#### References:

Wada, H. *et al.*, *Chem. Pharm. Bull.*, 1998, **46**, 1054-1055, (*isol*, *uv*, *pmr*, *cmr*)

Lee, K.K. *et al.*, *J. Nat. Prod.*, 1998, **61**, 1407

Gonzalez-Laredo, R.F. *et al.*, *Nat. Prod. Lett.*, 1999, **13**, 75-80, (*Rubranosides*)