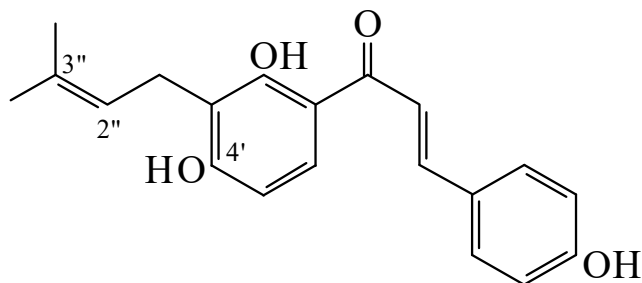




>>Entry Name: **2',4,4'-Trihydroxy-3'-prenylchalcone**

Synonym(s): 1-[2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-3-(4-hydroxyphenyl)-2-propen-1-one, 9CI. **Isobavachalcone**. 4-Hydroxyisocordoin. Corylifolinin



CAS Registry Number: 20784-50-3

Related CAS Registry Numbers(s): 54647-08-4 54676-49-2

Molecular Formula: C<sub>20</sub>H<sub>20</sub>O<sub>4</sub>

Molecular Weight: 324.376

Accurate Mass: 324.13616

Percentage Composition: C 74.06%; H 6.21%; O 19.73%

Physical Description: Yellow cryst.

Melting Point: Mp 171-172° (154-156°)

>>Derivative: 4'-Me ether

Synonym(s): 2',4-Dihydroxy-4'-methoxy-3'-prenylchalcone. **4-Hydroxyderricin**

CAS Registry Number: 55912-03-3

Molecular Formula: C<sub>21</sub>H<sub>22</sub>O<sub>4</sub>

Molecular Weight: 338.402

Accurate Mass: 338.15181

Percentage Composition: C 74.54%; H 6.55%; O 18.91%

Biological Source: Isol. from *Angelica keiskei* and *Lonchocarpus* sp.

Physical Description: Yellow needles (EtOAc/hexane)

>>Derivative:  $\Delta^3$ -Isomer, 2''-hydroxy, 4'-Me ether

Synonym(s): **Xanthoangelol D**

CAS Registry Number: 132998-83-5

Molecular Formula: C<sub>21</sub>H<sub>22</sub>O<sub>5</sub>

Molecular Weight: 354.402

Accurate Mass: 354.146725

Percentage Composition: C 71.17%; H 6.26%; O 22.57%

Biological Source: Constit. of roots of *Angelica keiskei*

Physical Description: Yellow cryst. (EtOAc/hexane)

Melting Point: Mp 148.9-150.1°

UV: [neutral]  $\lambda_{\max}$  222 (sh) (log  $\epsilon$  4.2); 240 (sh) (log  $\epsilon$  4.11); 307 (sh) (log  $\epsilon$  4.07); 367 (log  $\epsilon$  4.5) (MeOH)

Other Data: Racemic

>>Derivative:  $\Delta^3$ -Isomer, 2''-hydroperoxy, 4'-Me ether,

Synonym(s): **Xanthoangelol E**. Ashitabachalcone

CAS Registry Number: 132998-84-6

Molecular Formula: C<sub>21</sub>H<sub>22</sub>O<sub>6</sub>

Molecular Weight: 370.401

Accurate Mass: 370.14164

Percentage Composition: C 68.10%; H 5.99%; O 25.92%

Biological Source: Constit. of roots of *Angelica keiskei*

Physical Description: Yellow needles (EtOAc/hexane)

Melting Point: Mp 185.5-187.2°

UV: [neutral]  $\lambda_{\max}$  221 (sh) (log  $\epsilon$  4.06); 243 (sh) (log  $\epsilon$  3.99); 307 (sh) (log  $\epsilon$  3.95); 369 (log  $\epsilon$  4.39) (MeOH)

Other Data: Racemic

References: