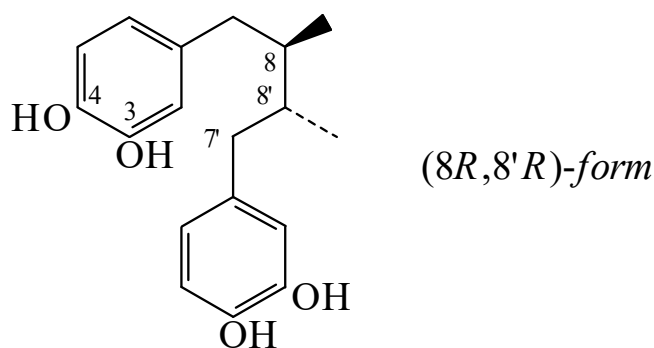




>>Entry Name: 3,3',4,4'-Tetrahydroxylignan

Synonym(s): 1,4-Bis(3,4-dihydroxyphenyl)-2,3-dimethylbutane. 2,3-Bis(3,4-dihydroxybenzyl)butane. Bisdemethyldihydroguaiaretic acid. Nordihydroguaiaretic acid. Norhydroguaiaretic acid. NDGA



CAS Registry Number: 500-38-9

Related CAS Registry Numbers(s): 68964-82-9 90365-59-6 103185-28-0 119182-23-9 119584-40-6 124649-80-5

Molecular Formula: C₁₈H₂₂O₄

Molecular Weight: 302.369

Accurate Mass: 302.15181

Percentage Composition: C 71.50%; H 7.33%; O 21.17%

Use/Importance: Lipxygenase inhibitor. Antineoplastic agent. Antioxidant, antibacterial agent

Calculated Log P Data: Log P 3.92 (calc)

Aldrich: 15761-9

Fluka: 74540

Sigma: N5023

Supelco: 4-7165

>>Variant: (8*R*,8'*R*)-form

Molecular Formula: C₁₈H₂₂O₄

Molecular Weight: 302.369

Accurate Mass: 302.15181

Percentage Composition: C 71.50%; H 7.33%; O 21.17%

Biological Source: Isol. from *Guaiacum officinale* and *Larrea* sp.

>>Derivative: 3,3'-Di-Me ether

>>Derivative: 3,4-Methylene, 3'-Me ether

Synonym(s): 4-Hydroxy-3-methoxy-3',4'-methylenedioxy lignan. **Austrobailignan 6**

CAS Registry Number: 55890-24-9

Molecular Formula: C₂₀H₂₄O₄

Molecular Weight: 328.407

Accurate Mass: 328.16746

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Biological Source: Lignan from *Austrobaileya scandens* and *Saururus cernuus*

Physical Description: Oil

Boiling Point: Bp_{0.02} 100-120°

Optical Rotation: [α]_D²⁵ -32 (c, 1.3 in CHCl₃)