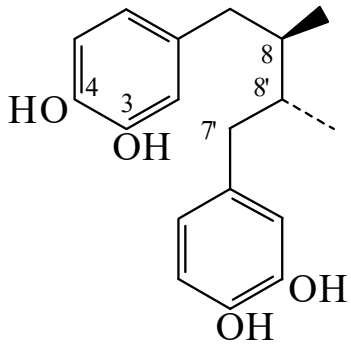
>>**Entry Name: 3,3',4,4'-Tetrahydroxylignan**
Synonym(s): 1,4-Bis(3,4-dihydroxyphenyl)-2,3-dimethylbutane. 2,3-Bis(3,4-dihydroxybenzyl)butane. Bisdemethyldihyroguaiaretic acid. Nordihydroguaiaretic acid. Norhydroguaiaretic acid. NDGA



(8*R*,8'*R*)-*form*

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: $C_{18}H_{22}O_4$
Molecular Weight: 302.369
Accurate Mass: 302.15181
Percentage Composition: C 71.50%; H 7.33%; O 21.17%

Use/Importance: Lipoxygenase 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: $C_{18}H_{22}O_4$
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'-methylenedioxylignan. **Austrobailignan 6**

CAS Registry Number: 55890-24-9

Molecular Formula: $C_{20}H_{24}O_4$
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: $[\alpha]_D^{25}$ –32 (c, 1.3 in $CHCl_3$)