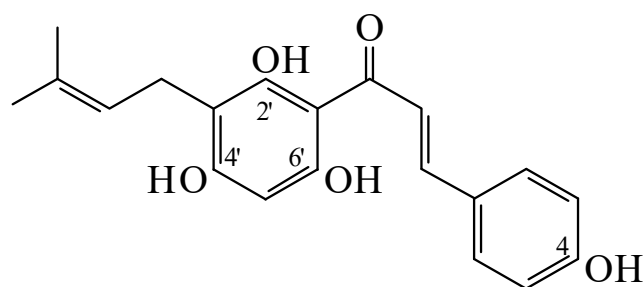




>>Entry Name: 2',4,4',6'-Tetrahydroxy-3'-prenylchalcone

Synonym(s): 3-(4-Hydroxyphenyl)-1-[2,4,6-trihydroxy-3-(3-methyl-2-butenyl)phenyl]-2-propen-1-one. Desmethylxanthohumol



CAS Registry Number: 115063-39-3

Molecular Formula: C₂₀H₂₀O₅

Molecular Weight: 340.375

Accurate Mass: 340.131075

Percentage Composition: C 70.58%; H 5.92%; O 23.50%

Biological Source: Constit. of *Humulus lupulus* (hops)

Biological Use/Importance: Inhibitor of diacylglycerol acyltransferase

>>Derivative: 4'-Me ether

Synonym(s): 2',4,6'-Trihydroxy-4'-methoxy-3'-prenylchalcone. Xanthogalenol

CAS Registry Number: 265659-35-6

Molecular Formula: C₂₁H₂₂O₅

Molecular Weight: 354.402

Accurate Mass: 354.146725

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

Biological Source: Isol. from *Humulus lupulus*

>>Derivative: 6'-Me ether

Synonym(s): 2',4,4'-Trihydroxy-6'-methoxy-3'-prenylchalcone. Xanthohumol

CAS Registry Number: 6754-58-1

Extra CAS Registry Numbers(s): 569-83-5

Molecular Formula: C₂₁H₂₂O₅

Molecular Weight: 354.402

Accurate Mass: 354.146725

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

Biological Source: Isol. from *Humulus lupulus* (hops) and from *Sophora angustifolia*

Physical Description: Orange-yellow cryst. (EtOH aq.)

Melting Point: Mp 172°

Solubility: BERDY SOL: Sol. MeOH; poorly sol. H₂O

>>Derivative: 4',6'-Di-Me ether

Synonym(s): 2',4-Dihydroxy-4',6'-dimethoxy-3'-prenylchalcone

CAS Registry Number: 123316-63-2

Molecular Formula: C₂₂H₂₄O₅

Molecular Weight: 368.429

Accurate Mass: 368.162375

Percentage Composition: C 71.72%; H 6.57%; O 21.71%

Biological Source: Isol. from *Humulus lupulus*

Physical Description: Cryst. (EtOAc/hexane)

Melting Point: Mp 152-153°