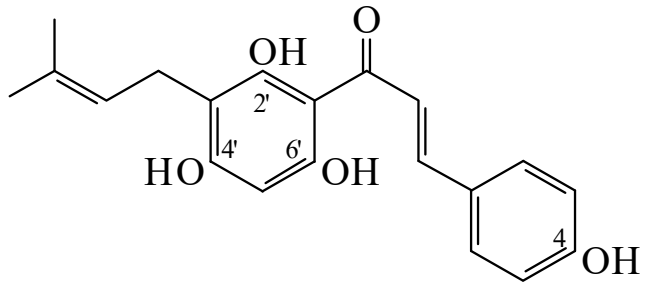
>>**Entry Name: 2',4,4',6'-Tetrahydroxy-3'-prenylchalcone**
Synonym(s): 3-(4-Hydroxyphenyl)-1-[2,4,6-trihydroxy-3-(3-methyl-2-butenyl)phenyl]-2-propen-1-one. **Desmethylxanthohumol**



CAS Registry Number: 115063-39-3

Molecular Formula: $C_{20}H_{20}O_5$
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: $C_{21}H_{22}O_5$
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: $C_{21}H_{22}O_5$
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. H_2O

>>**Derivative:** 4',6'-Di-Me ether
Synonym(s): 2',4-Dihydroxy-4',6'-dimethoxy-3'-prenylchalcone
CAS Registry Number: 123316-63-2

Molecular Formula: $C_{22}H_{24}O_5$
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°